



Know what's below.
Call before you dig.

WARNING



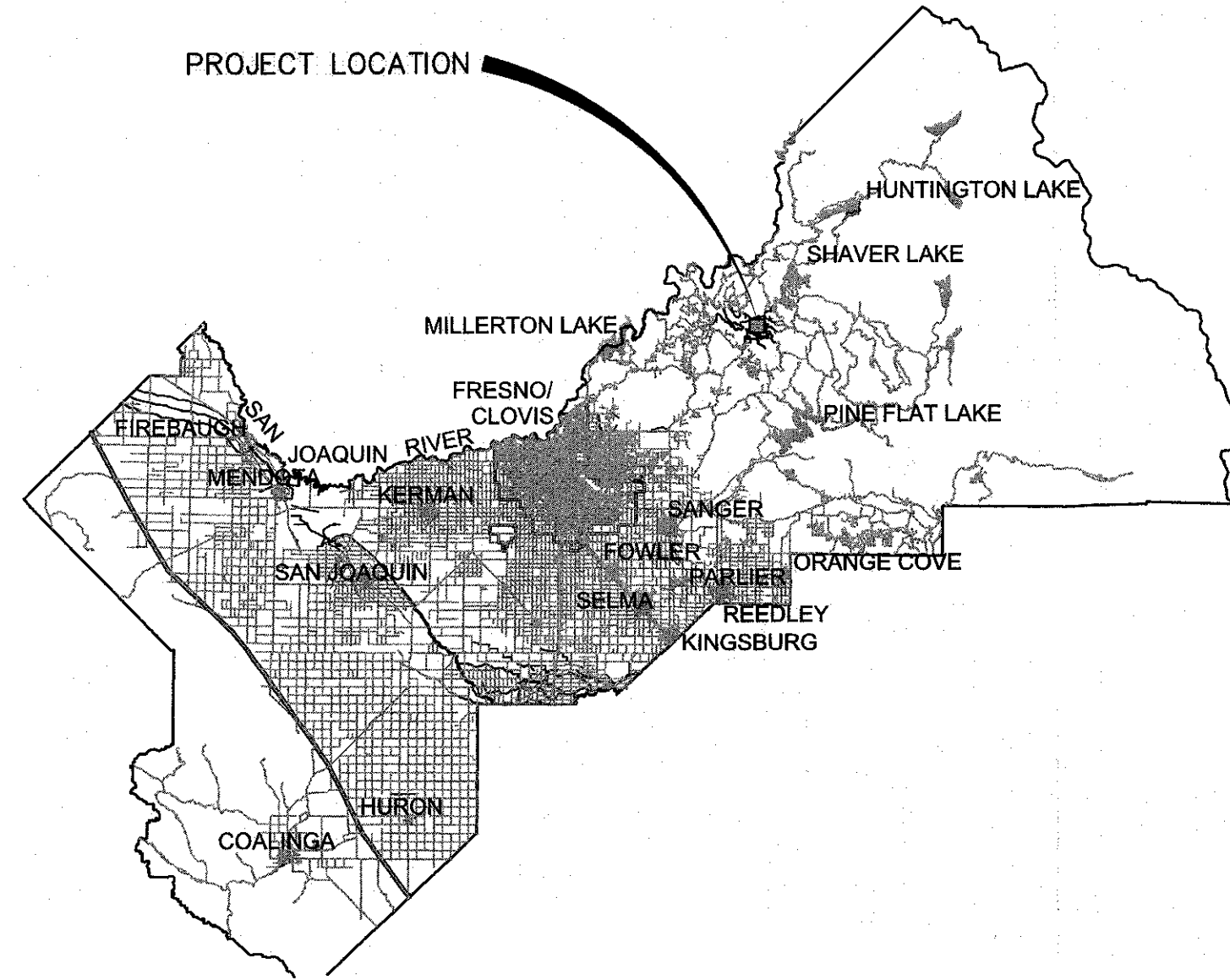
POWER LINES
OVERHEAD

PLANS FOR REVIEW

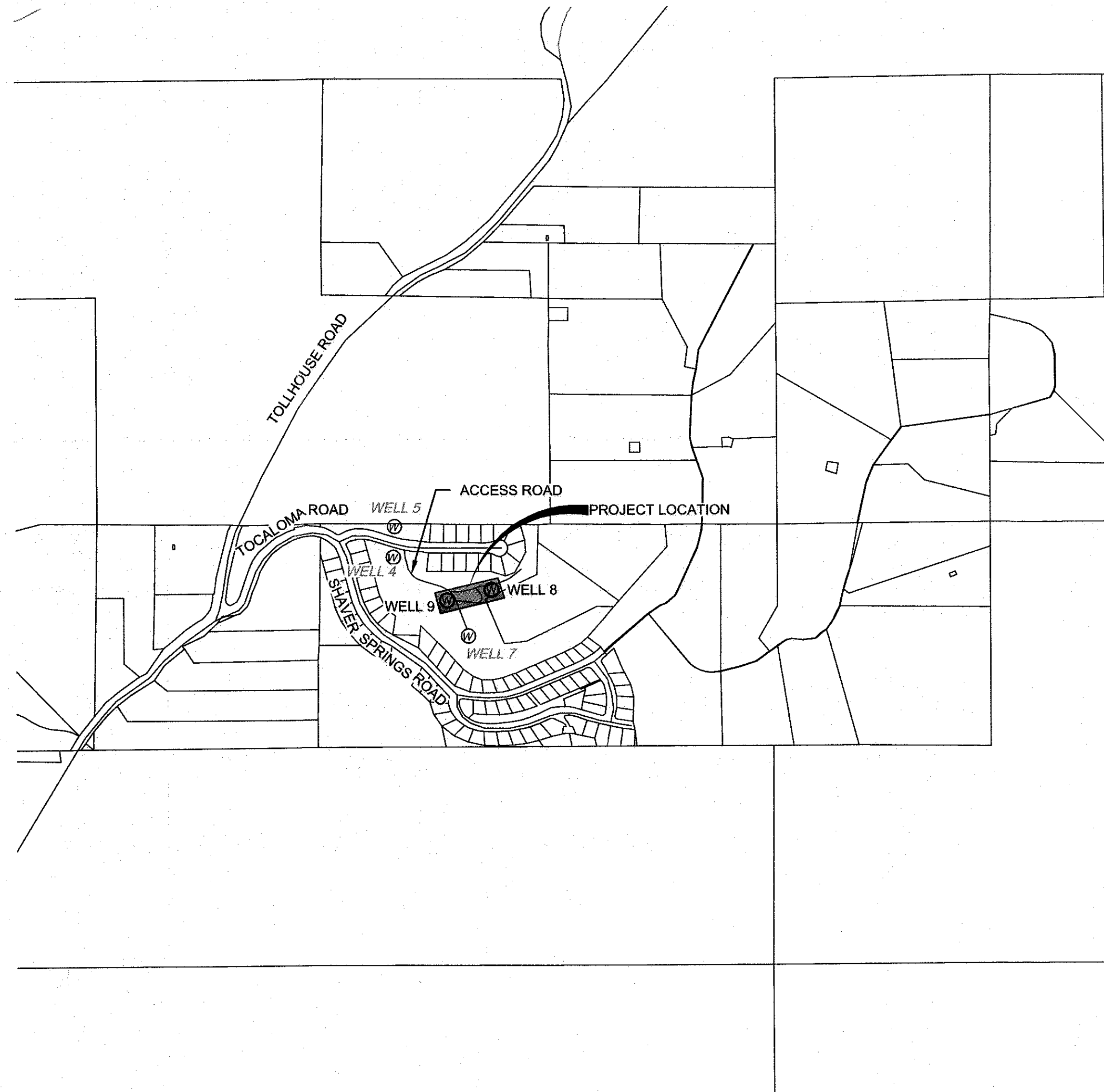
WATERWORKS DISTRICT 40 SHAVER SPRINGS

WATER SUPPLY WELL CONSTRUCTION

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES
UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

Sheet List Table	
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GENERAL	
1	COVER SHEET
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CIVIL	
4	OVERALL SITE PLAN
5	WELL 9 SITE PLAN
6	WELL 8 SITE PLAN
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13	CIVIL DETAILS
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16	TYPICAL WELL BLDG ELECTRICAL PLAN SINGLE LINE DIAGRAM & SCHEDULE
17	ELECTRICAL DETAILS

ERNEST "BUDDY" MENDES CHAIRMAN 4th DISTRICT
GARRY BREDEFELD VICE CHAIRMAN 2nd DISTRICT
NATHAN MAGSIG 5th DISTRICT
LUIS CHAVEZ 3rd DISTRICT
BRIAN PACHECO 1st DISTRICT

PAUL NERLAND
COUNTY ADMINISTRATIVE OFFICER

APPROVED

STEVEN E. WHITE, DIRECTOR
DEPARTMENT OF PUBLIC WORKS AND PLANNING

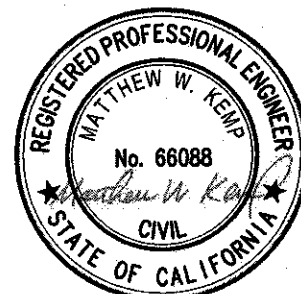
CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
CLASS C57, WELL DRILLING					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11342	N/A	N/A	2024-2025	1	17
CONTRACT NO. 24-23-C					

RECORD DRAWING	
NAME	
ADDRESS	
CITY	STATE ZIP
PHONE	
DATE AWARDED	
DATE STARTED	
DATE COMPLETED	
RESIDENT ENGINEER	
NAME	SIGNATURE
NAME	SIGNATURE

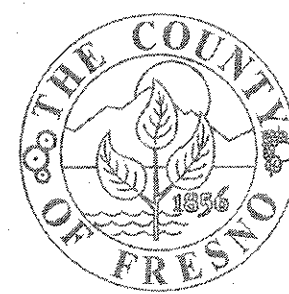
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PRITCHARD

455 W FIR AVENUE
CLOVIS, CA 93611-9166
PHONE (559) 449-2700
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DIVISION	DESIGN	CONST	RMO	RESC
SIGNATURE				DA
DATE	2/14/2025			2/14/2025



DATE SIGNED: 2/13/2024



DEPARTMENT OF PUBLIC WORKS AND PLANNING

ABBREVIATIONS			LINETYPES			SYMBOLS		
AB	AGGREGATE BASE	HDW	HEADWALL	T&B	TOP & BOTTOM	DESCRIPTION		
AC	ASPHALT CONCRETE	HGL	HYDRAULIC GRADE LINE	TB	TOP OF BANK	DESCRIPTION		
ACP	ASBESTOS-CEMENT PIPE	HORIZ	HORIZONTAL	TBM	TEMPORARY BENCHMARK	DESCRIPTION		
AD	ALUMINUM DISK	HP	HINGE POINT, HIGH POINT, HORSEPOWER	TC	TOP OF CURB	DESCRIPTION		
AGG	AGGREGATE	HP GAS	HIGH PRESSURE GAS	TCE	TEMPORARY CONSTRUCTION EASEMENT	DESCRIPTION		
AH	AHEAD	HPS	HIGH PRESSURE SWITCH	TDI	TENSILE DUCTILE IRON	DESCRIPTION		
ALT	ALTERNATE	HR	HANDRAIL	TELE	TELEPHONE	DESCRIPTION		
AP	ANGLE POINT	H/T	HUB & TACK	TF	TOP OF FOOTING	DESCRIPTION		
APPROX	APPROXIMATE	HWL	HIGH WATER LEVEL	TFC	TOP FACE OF CURB	DESCRIPTION		
APN	ASSESSOR'S PARCEL NUMBER	HYDRO	HYDRO-PNEUMATIC	TG	TOP OF GRATE	DESCRIPTION		
ARV	AIR RELIEF VALVE	ID	INSIDE DIAMETER	TH	THREAD	DESCRIPTION		
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IN	INCH	TL	TOP OF LINING	DESCRIPTION		
AV	AIR VENT	INV	INVERT	TOE	TOE OF SLOPE	DESCRIPTION		
AWE	AMERICAN WATER WORKS ASSOCIATION	IP	IRON PIPE	TOP	TOP OF SLOPE	DESCRIPTION		
BAR	BARRIER	IRR	IRRIGATION	TP	TELEPHONE POLE	DESCRIPTION		
BC	BEGIN CURVE	JP	JUNCTION POLE	TR	TELEPHONE RISER	DESCRIPTION		
BD	BRASS DISK	LBS	POUNDS	TRANS	TRANSFORMER	DESCRIPTION		
BFP	BACKFLOW PREVENTER	LC	LENGTH OF CURVE	TRFC	TRAFFIC	DESCRIPTION		
BK	BACK	LCW	LONG CRESTED WEIR	TS	TOP OF STRUCTURE	DESCRIPTION		
BLDG	BUILDING	LF	LINEAR FEET	TSB	TELEPHONE SPLICE BOX	DESCRIPTION		
BM	BENCHMARK	LG	LONG	TS	TOP OF STRUCTURE	DESCRIPTION		
BO	BOLLARD	LT	LEFT	TSB	TELEPHONE SPLICE BOX	DESCRIPTION		
BS	BORING SITE	LPG	LIQUEFIED PETROLEUM GAS	TYP	TYPICAL	DESCRIPTION		
BTM	BOTTOM	MAX	MAXIMUM	UG	UNDERGROUND	DESCRIPTION		
BVC	BEGIN VERTICAL CURVATURE	MB	MAILBOX	UNO	UNLESS NOTED OTHERWISE	DESCRIPTION		
BW	BACK OF WALK	MCC	MOTOR CONTROL CENTER	UP	UTILITY POLE	DESCRIPTION		
BWL	BACK OF WALL	MFR	MANUFACTURER	UT	UTILITY	DESCRIPTION		
BWR	BARB WIRE	MH	MANHOLE	U/S	UPSTREAM	DESCRIPTION		
C, CONC	CONCRETE	MIN	MINIMUM	VCP	VITRIFIED CLAY PIPE	DESCRIPTION		
CA	CALIFORNIA	MISC	MISCELLANEOUS	VERT	VERTICAL	DESCRIPTION		
CAB	CABINET	MJ	MECHANICAL JOINT	VG	VALLEY GUTTER	DESCRIPTION		
CBL	CABLE	MN	MAG NAIL	VLT	VALVE	DESCRIPTION		
CFS	CUBIC FEET PER SECOND	MP	MEDIUM PRESSURE GAS LINE	(W)	WEST	DESCRIPTION		
C&G	CURB & GUTTER	MPT	MALE PIPE THREAD	W	WATER	DESCRIPTION		
CHK	CHECK	MRKR	MARKER	WL	WATER LINE	DESCRIPTION		
CHLK	CHAIN LINK	MS	MILD STEEL	WM	WATER METER	DESCRIPTION		
CI	CAST IRON	(N)	NORTH	WS	WATER SERVICE	DESCRIPTION		
CIP	CAST IRON PIPE	NAVD	NORTH AMERICAN VERTICAL DATUM	WV	WATER VALVE	DESCRIPTION		
CIPCP	CAST-IN-PLACE CONCRETE PIPE	NC	NORMALLY CONSOLIDATED	WW	WASTE WATER	DESCRIPTION		
CL	CLASS	NGVD	NATIONAL GEODETTIC VERTICAL DATUM	W/	WITH	DESCRIPTION		
CLVT	CULVERT	NIC	NOT IN CONTRACT	W/O	WITHOUT	DESCRIPTION		
CL	CENTERLINE	NPT	NATIONAL PIPE THREAD			DESCRIPTION		
CLF	CHAIN LINK FENCE	NTS	NOT TO SCALE			DESCRIPTION		
CLR	CLEAR, CLEARANCE	OC	ON CENTER			DESCRIPTION		
CMLC	CEMENT MORTAR LINED & COATED	OD	OUTSIDE DIAMETER			DESCRIPTION		
CMP	CORRUGATED METAL PIPE	OH	OVERHEAD			DESCRIPTION		
ON	CONCRETE NAIL	OP	OPERATING			DESCRIPTION		
CNS	COMPACTED NATIVE SOIL	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION			DESCRIPTION		
CO	SEWER CLEAN OUT	O&M	OPERATIONS & MAINTENANCE			DESCRIPTION		
CONT	CONTINUOUS	(P)	PROPOSED			DESCRIPTION		
CONST	CONSTRUCT/CONSTRUCTION	PB	PULL BOX			DESCRIPTION		
COR	CORNER	PC	POINT OF CURVATURE			DESCRIPTION		
CORP	CORPORATION	PCC	POINT OF COMPOUND CURVATURE			DESCRIPTION		
COL	COLUMN	PCC	PORTLAND CEMENT CONCRETE			DESCRIPTION		
COUP	COUPLING	PE	PERMANENT EASEMENT			DESCRIPTION		
CP	CONTROL POINT	PER	PERIMETER			DESCRIPTION		
CR	CROWN	PI	POINT OF INTERSECTION			DESCRIPTION		
CU	CUBIC	PIP	PLASTIC IRRIGATION PIPE			DESCRIPTION		
CY	CUBIC YARDS	PLC	PROGRAMMABLE LOGIC CONTROLLER			DESCRIPTION		
DA	DRIVE APPROACH	PL	PROPERTY LINE			DESCRIPTION		
DEC	DECIDUOUS	PNL	PANEL			DESCRIPTION		
DEMO	DEMOLISH/DEMOLITION	POC	POINT ON CURVE			DESCRIPTION		
DI	DROP INLET	POL	POINT ON LINE			DESCRIPTION		
DIA, Ø	DIAMETER	POT	POINT ON TANGENT			DESCRIPTION		
DIM	DIMENSION	PP	POWER POLE			DESCRIPTION		
DIP	DUCTILE IRON PIPE	PRC	POINT OF REVERSE CURVATURE			DESCRIPTION		
D/S	DOWNSTREAM	PRV	PRESSURE REDUCING VALVE			DESCRIPTION		
DW	DRIVEWAY	PSF	POUNDS PER SQUARE FOOT			DESCRIPTION		
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH			DESCRIPTION		
(E)	EXISTING, EAST	PT	POINT OF TANGENCY			DESCRIPTION		
EA	EACH	PVC	POLYVINYL CHLORIDE			DESCRIPTION		
EC	END CURVE	PVCC	POINT OF VERTICAL COMPOUND CURVATURE			DESCRIPTION		
ECC	ECCENTRIC	PVMT	PAVEMENT			DESCRIPTION		
EF	EACH FACE	PVRC	POINT OF VERTICAL REVERSE CURVATURE			DESCRIPTION		
EG	EXISTING GRADE	PVI	POINT OF VERTICAL INTERSECTION			DESCRIPTION		
EL, ELEV	ELEVATION	R	RADIUS			DESCRIPTION		
ELC	EPOXY LINED & COATED	RBR	REBAR			DESCRIPTION		
ELEC	ELECTRIC	RC	RADIUS OF CURVE			DESCRIPTION		
ELL	ELBOW	RCP	REINFORCED CONCRETE PIPE			DESCRIPTION		
EM	ELECTRIC METER	RD	RELATIVE DENSITY			DESCRIPTION		
ENL	END OF LINE	RE	REFERENCE			DESCRIPTION		
EP	EDGE OF PAVEMENT	REQD	REQUIRED			DESCRIPTION		
EQUIV	EQUIVALENT	RET	RETURN			DESCRIPTION		
ESMT	EASEMENT	REV	REVISION			DESCRIPTION		
EUC	EUCALYPTUS	RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE			DESCRIPTION		
EVC	END VERTICAL CURVE	RGS	RIGID GALVANIZED STEEL			DESCRIPTION		
EW	EACH WAY	RP	RADIUS POINT			DESCRIPTION		
EXP	EXPOSED	RR	RAILROAD			DESCRIPTION		
(F)	FUTURE	RT	RIGHT			DESCRIPTION		
F&I	FURNISH & INSTALL	RTU	REMOTE TERMINAL UNIT			DESCRIPTION		
FD	FOUND	R/W	RIGHT OF WAY			DESCRIPTION		
FDC	FIRE DEPARTMENT CONNECTION	(S)	SOUTH, SOLVENT WELD			DESCRIPTION		
FF	FINISHED FLOOR	S	SLIP			DESCRIPTION		
FG	FINISHED GRADE	S=	SLOPE			DESCRIPTION		
FH	FIRE HYDRANT	SCH	SCHEDULE			DESCRIPTION		
FL, FL	FLOW LINE	SCP	STANDARD CONCRETE PIPE			DESCRIPTION		
FLG	FLANGE	SD	STORM DRAIN			DESCRIPTION		
FLGD	FLANGED	SDMH	STORM DRAIN MANHOLE			DESCRIPTION		
FM	FORCE MAIN	SEC	SECTION			DESCRIPTION		
FNC	FENCE	SERV	SERVICE			DESCRIPTION		
FRP	FIBER REINFORCED POLYESTER PIPE	SF	SQUARE FEET			DESCRIPTION		
FT	FOOT/FEET	SP	SERVICE POLE			DESCRIPTION		
FW	FRONT OF WALK	SPEC	SPECIFICATION			DESCRIPTION		
FWL	FACE OF WALL	SPNDL	SPINDLE			DESCRIPTION		
GA	GAGE	SQ	SQUARE			DESCRIPTION		
GAL	GALLON	SS	SANITARY SEWER			DESCRIPTION		
GALV	GALVANIZED	SS OR STS	STAINLESS STEEL			DESCRIPTION		
GB	GRADE BREAK	SSMH	SANITARY SEWER MANHOLE			DESCRIPTION		
GM	GAS METER	STA	STATION			DESCRIPTION		
GPM	GALLONS PER MINUTE	STD	STANDARD			DESCRIPTION		
GRVL	GRAVEL	STL	STEEL			DESCRIPTION		
GS	GAS	STP	STAND PIPE			DESCRIPTION		
GSV	GAS VALVE	STRC	STRUCTURE			DESCRIPTION		
GUY	GUY WIRE	STRP	STRIPING			DESCRIPTION		
GV	GATE VALVE	SWL	SWALE			DESCRIPTION		
HD	HEAD	STWL	STILLING WELL			DESCRIPTION		
HDPE	HIGH DENSITY POLYETHYLENE	(T)	THREADED			DESCRIPTION		
HDR	HEADER	T	THREAD			DESCRIPTION		
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POWER LINES OVERHEAD

Know what's below. Call before you dig.

APPROXIMATE LOCATION OF DWR FUNDING SIGN PER NOTE 12 ON SHEET 3

(E) WELL #5 (INACTIVE)

(E) TELEPHONE PEDESTAL

(E) 6" WATER MAIN

(E) ELECTRICAL CABINETS

ACCESS ROAD

(E) 1 1/2" WATER MAIN

(E) WELL #4 AND 5'X6" BUILDING (INACTIVE)

(E) 6" SEWER LINE

(E) PROPERTY LINE, TYP

ACCESS ROAD

WELL 8 SEE SHEET 6

PROPOSED 2" WATER MAIN

ACCESS ROAD

ADD ALTERNATE NO.1 WELL 9 SEE SHEET 5

ADD ALTERNATE NO.1 PROPOSED 2" WATER MAIN

(E) DRAINAGE DITCH

(E) HEAD WALL

(E) DRAINAGE DITCH

(E) DRAINAGE DITCH

(E) WELL #7

(E) UNDERGROUND ELECTRIC LINE

3764.45 CL 36" Grate

3760.16 Floor Elevation

150' TRANSMISSION LINE EASEMENT

141'±

97'±

SHAYER SPRINGS ROAD

TOCALOMA ROAD

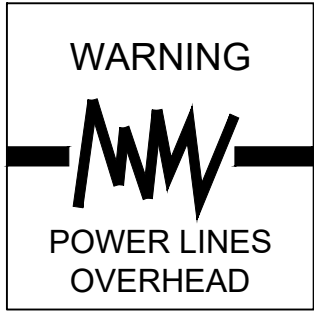
NOTES

1. THE EXACT LOCATION OF WATER, SEWER AND BURIED ELECTRICAL FACILITIES ARE UNKNOWN. WATER AND SEWER IS SHOWN BASED ON INFORMATION PROVIDED BY THE COUNTY. BURIED ELECTRICAL CONDUIT ARE UNKNOWN AND NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL LOCATE EXISTING BURIED FACILITIES AND EXERCISE EXTREME CAUTION DURING TRENCHING.

PROVOST & PRITCHARD

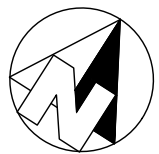


		DATE	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DESIGNED: MATT KEMP		2/13/2024	RESIDENT ENGINEER							
DRAWN: JMN/SLP		2/13/2024	DATE							
CHECKED:		2/13/2024								
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.										



POINT TABLE		
POINT #	NORTHING	EASTING
101	2263793.85	6452303.73
102	2263789.43	6452304.36
103	2263787.55	6452303.23
104	2263788.62	6452303.65
105	2263771.98	6452276.72
106	2263769.06	6452274.58
107	2263765.90	6452272.14
108	2263761.87	6452272.84
109	2263762.88	6452269.44
110	2263749.32	6452277.60
111	2263751.59	6452279.42
112	2263748.57	6452286.15
113	2263749.40	6452282.56
114	2263750.07	6452286.33
115	2263767.22	6452313.15
116	2263766.21	6452313.17
117	2263767.83	6452314.53
118	2263767.92	6452316.72
119	2263765.24	6452320.30
120	2263764.10	6452320.87
121	2263782.06	6452311.88
122	2263781.04	6452310.15
123	2263780.02	6452308.43
124	2263759.03	6452281.78
125	2263764.37	6452278.37
126	2263769.93	6452287.08
127	2263764.60	6452290.49
128	2263766.22	6452287.07

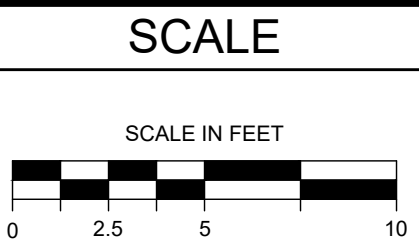
ADD ALTERNATE NO.1 - WELL 9 AND 2" WATER MAIN



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2/13/2025 9:59 AM C:\Users\matt.kemp\OneDrive\Documents\Projects\Shaver Springs\GIS\Well900_CAD\240_Sheet_Series\02_Plans_Maps\03_WELL 2 SITE PLAN.dwg Sam Resha

DESIGNED: MATT KEMP	DATE	RECORD DRAWING	
DRAWN: JMN/SLP	2/13/2024	RESIDENT ENGINEER	DATE
CHECKED:	2/13/2024		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.			



SUPERVISING ENGINEER

DATE



PROJECT

WATERWORKS DISTRICT 40 SHAVER SPRINGS

ROAD NO.

BRIDGE NO.



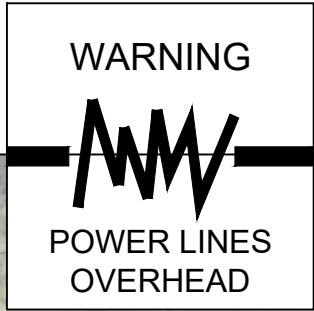
DEPARTMENT OF PUBLIC WORKS AND PLANNING

WELL 9 SITE PLAN

DRAWING NO. 11342

SHEET NO. 5

TOTAL 17



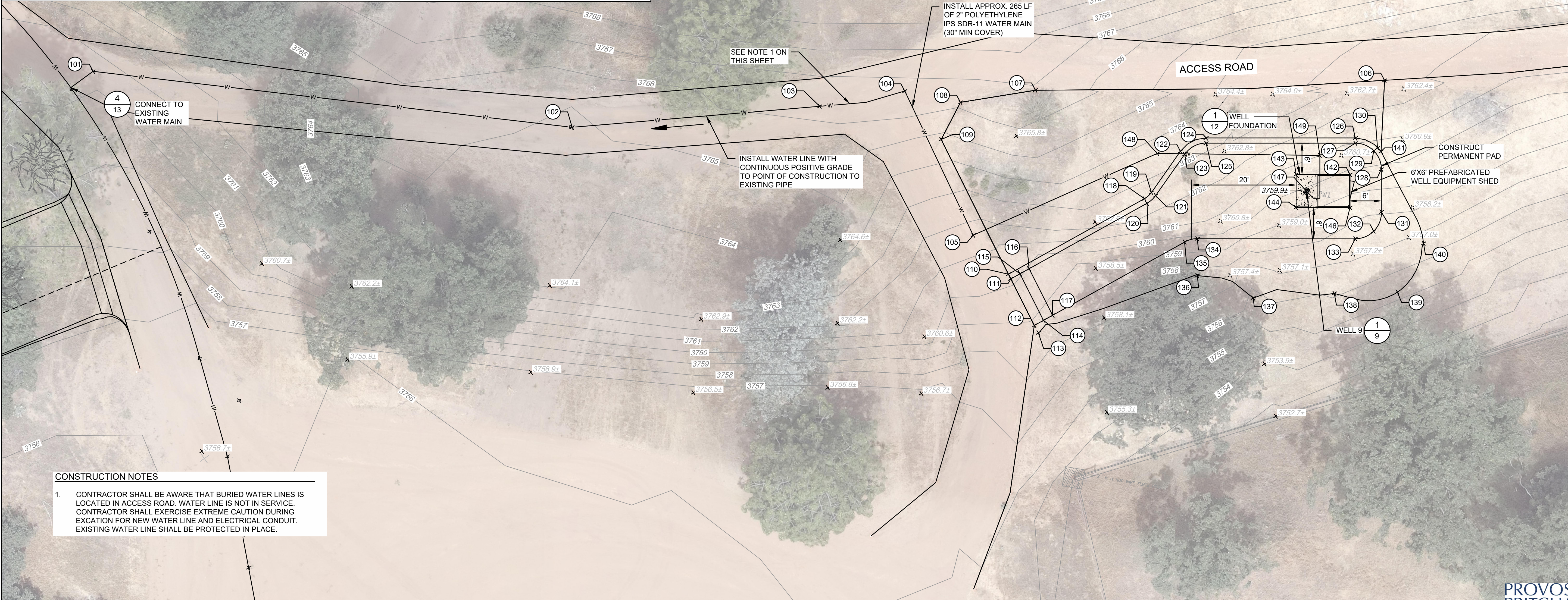
Know what's below.
Call before you dig.

POINT TABLE		
POINT #	NORTHING	EASTING
101	2263813.33	6452304.96
102	2263818.46	6452397.26
103	2263830.55	6452443.32
104	2263836.22	6452458.88
105	2263811.23	6452476.53
106	2263853.97	6452549.13
107	2263840.67	6452483.53
108	2263835.90	6452469.77
109	2263828.26	6452467.36
110	2263805.01	6452484.46
111	2263804.21	6452485.06
112	2263796.18	6452491.03

POINT TABLE		
POINT #	NORTHING	EASTING
113	2263794.92	6452492.05
114	2263797.44	6452492.59
115	2263805.47	6452486.62
116	2263806.72	6452488.18
117	2263798.69	6452494.15
118	2263823.73	6452507.67
119	2263825.13	6452508.78
120	2263822.95	6452508.30
121	2263824.71	6452509.68
122	2263833.88	6452512.91
123	2263833.46	6452513.82
124	2263837.23	6452517.31

POINT TABLE		
POINT #	NORTHING	EASTING
125	2263836.25	6452517.48
126	2263842.12	6452545.48
127	2263841.13	6452545.65
128	2263837.06	6452551.43
129	2263840.29	6452549.39
130	2263840.97	6452550.02
131	2263829.00	6452552.83
132	2263825.12	6452552.02
133	2263823.07	6452548.79
134	2263817.90	6452518.97
135	2263816.86	6452516.68
136	2263810.94	6452520.17

POINT TABLE		
POINT #	NORTHING	EASTING
137	2263808.53	6452531.46
138	2263812.06	6452546.64
139	2263814.40	6452558.50
140	2263824.44	6452561.84
141	2263840.40	6452550.80
142	2263835.05	6452545.69
143	2263833.28	6452535.51
144	2263827.04	6452536.59
146	2263828.81	6452546.78
147	2263830.46	6452538.03
148	2263832.70	6452508.60
149	2263837.67	6452539.36



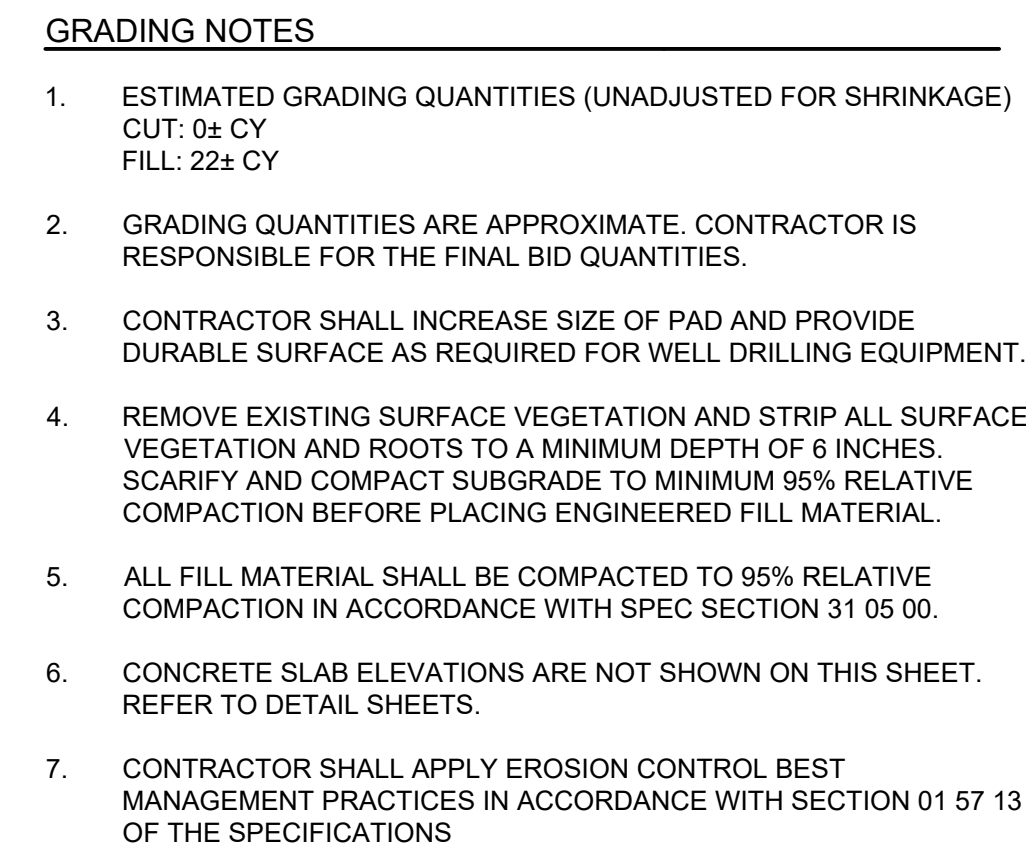
BASE BID - WELL 8 AND 2" WATER MAIN

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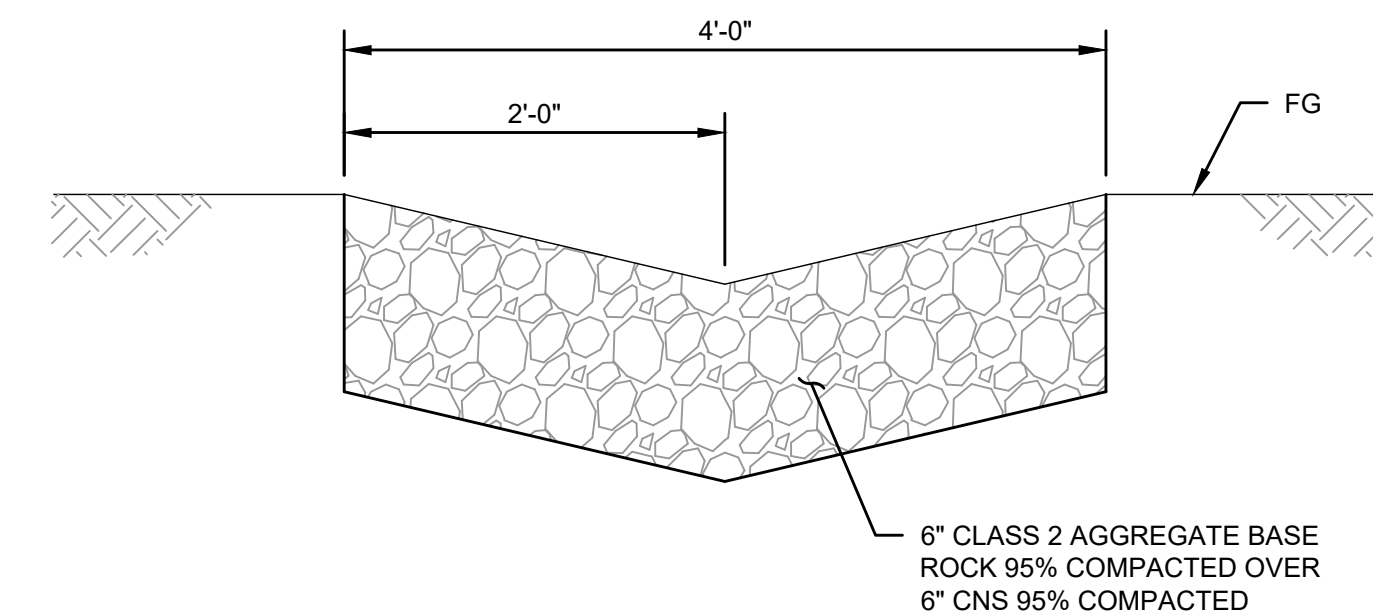
DESIGNED: MATT KEMP		DATE		RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: JMN/SLP		2/13/2024		RESIDENT ENGINEER		SCALE IN FEET		WATERWORKS DISTRICT 40 SHAVER SPRINGS		WELL 8 SITE PLAN	
CHECKED:		2/13/2024				0 5 10 20		ROAD NO.		DRAWING NO. 11342	
								BRIDGE NO.		SHEET NO. 6	
										TOTAL 17	



**PROVOST &
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1/13/2025 9:31 AM G:\Fresno County of-1397139724003-WWD 40 Shaver Springs GW Well\300 CAD\340 Sheet Sets\02 Plans Maps\WELL 2 GRADING PLAN.dwg -Sam Peashta



GRADING NOTES

1. ESTIMATED GRADING QUANTITIES (UNADJUSTED FOR SHRINKAGE)
CUT: 90± CY
FILL: 50± CY
2. GRADING QUANTITIES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR THE FINAL BID QUANTITIES.
3. CONTRACTOR SHALL INCREASE SIZE OF PAD AND PROVIDE DURABLE SURFACE AS REQUIRED FOR WELL DRILLING EQUIPMENT.
4. REMOVE EXISTING SURFACE VEGETATION AND STRIP ALL SURFACE VEGETATION AND ROOTS TO A MINIMUM DEPTH OF 6 INCHES. SCARIFY AND COMPACT SUBGRADE TO MINIMUM 95% RELATIVE COMPACTION BEFORE PLACING ENGINEERED FILL MATERIAL.
5. ALL FILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION IN ACCORDANCE WITH SPEC SECTION 31 05 00.
6. CONCRETE SLAB ELEVATIONS ARE NOT SHOWN ON THIS SHEET. REFER TO DETAIL SHEETS.
7. CONTRACTOR SHALL APPLY EROSION CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH SECTION 01 57 13 OF THE SPECIFICATIONS.

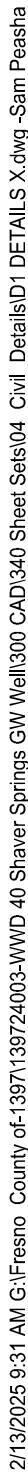


**PROVOST &
PRITCHARD**

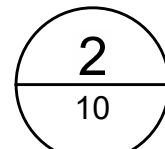
455 W FIR AVENUE
CLOVIS, CA 93611-9166
PHONE (559) 449-2700
FAX (559) 449-2715
www.provostandpritchard.com

		DATE	RECORD DRAWING		SCALE				PROJECT				DEPARTMENT OF PUBLIC WORKS AND PLANNING								
DESIGNED: MATT KEMP		2/13/2024	RESIDENT ENGINEER		DATE				WATERWORKS DISTRICT 40 SHAVER SPRINGS				WELL 8 GRADING PLAN								
DRAWN: JMN/SLP		2/13/2024																			
CHECKED:		2/13/2024																			
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.																					
							SUPERVISING ENGINEER		DATE		ROAD NO.		BRIDGE NO.		DRAWING NO. 11342			SHEET NO. 8		TOTAL 17	

1/13/2025 9:31 AM G:\Fresno County of-1397139724003-VWVD 40 Shaver Springs GW Well\300 CAD\340 Sheet Sets\02 Plans Maps\WELL 1 GRADING PLAN ALT.dwg -Sam Peashta

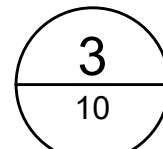


	DATE	RECORD DRAWING		SCALE			PROJECT			DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DESIGNED: MATT KEMP	2/13/2024	RESIDENT ENGINEER	DATE	NOT TO SCALE	_____ SUPERVISING ENGINEER	_____ DATE	WATERWORKS DISTRICT 40 SHAVER SPRINGS			WELL EQUIPMENT DETAILS		
DRAWN: JMN/SLP	2/13/2024											
CHECKED:	2/13/2024											
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							ROAD NO.	BRIDGE NO.		DRAWING NO. 11342	SHEET NO. 9	TOTAL 17

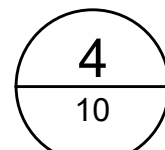


NOTES

- NOT TO SCALE

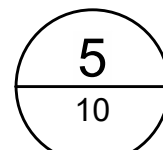


NOT TO SCALE



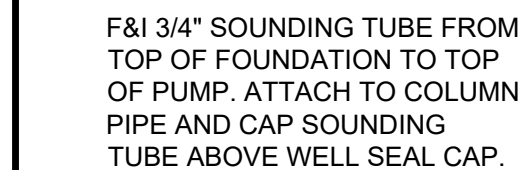
NOTES

- NOT TO SCALE



NOTES

- NOT TO SCALE



ESTIMATED DEPTH TO PWL	915 FT
ESTIMATED LENGTH OF COLUMN	965 FT
DESIGN FLOWRATE	10 GPM
TDH AT DESIGN FLOWRATE	1055 FT
ESTIMATED MOTOR REQUIREMENT	15 HP

1. SUBMERSIBLE PUMP POWER CORD SHALL BE 3 CONDUCTOR #1/0 COPPER CORD.
2. FINAL PUMP DATA AND CORD SIZE WILL BE VERIFIED AFTER WELL DEVELOPMENT IS COMPLETED
3. FURNISH AND INSTALL ADDITIONAL CHECK VALVES AT 25FT ABOVE PUMP CHECK VALVE AND AT 200 FT SPACING FROM GROUND SURFACE.

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$\frac{6}{10}$

	SCALE
	NOT TO SCALE

NOT TO SCALE

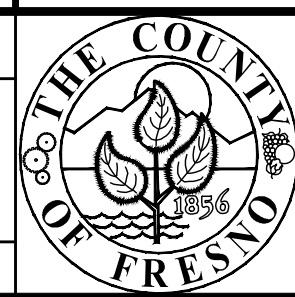
SUPERVISING ENGINEER

DATE _____



ROAD NO.

BRIDGE NO.



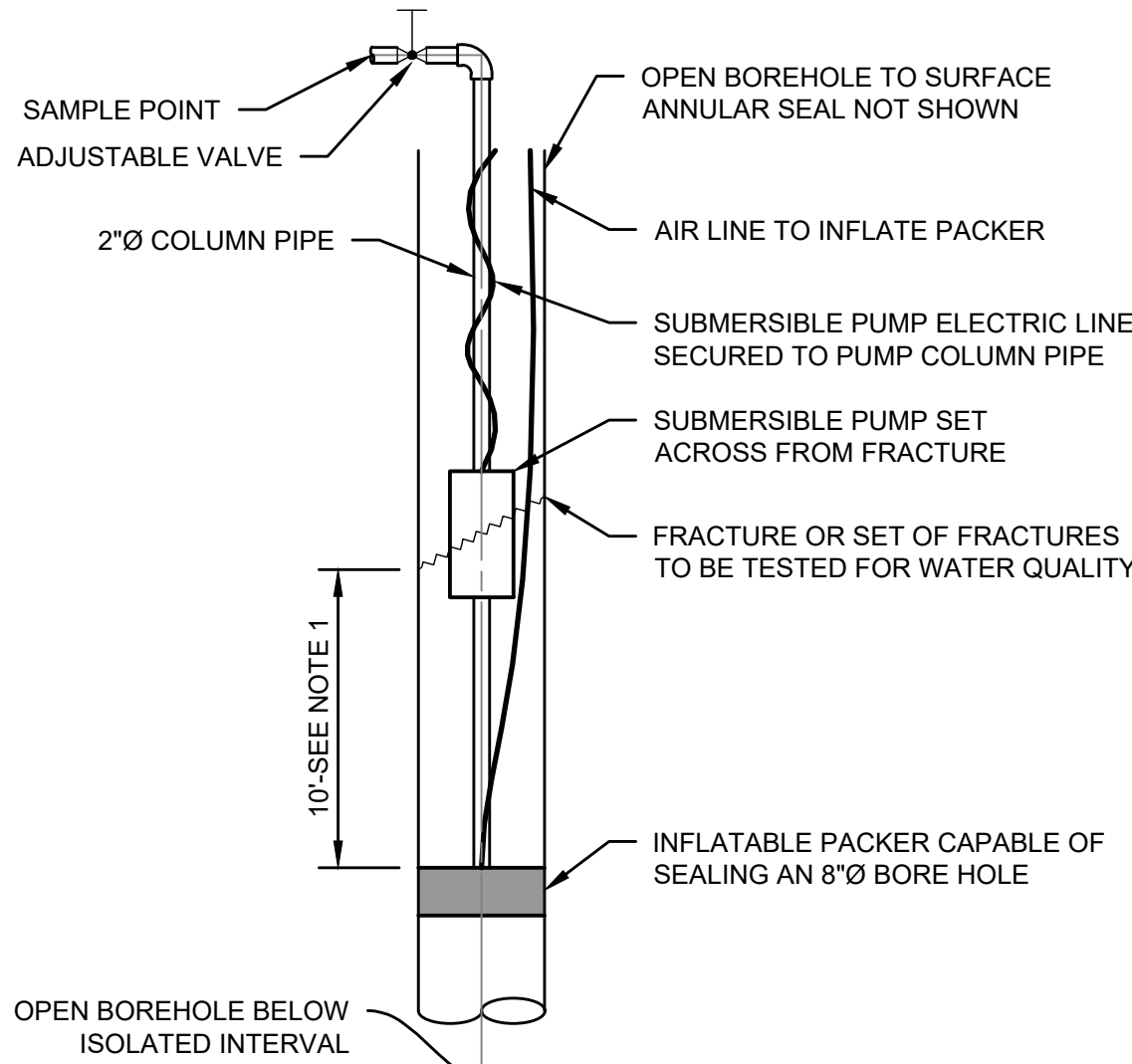
WELL DRILLING DETAILS 1 OF 2

DRAWING NO.11342

SHEET NO. 10

TOTAL 17

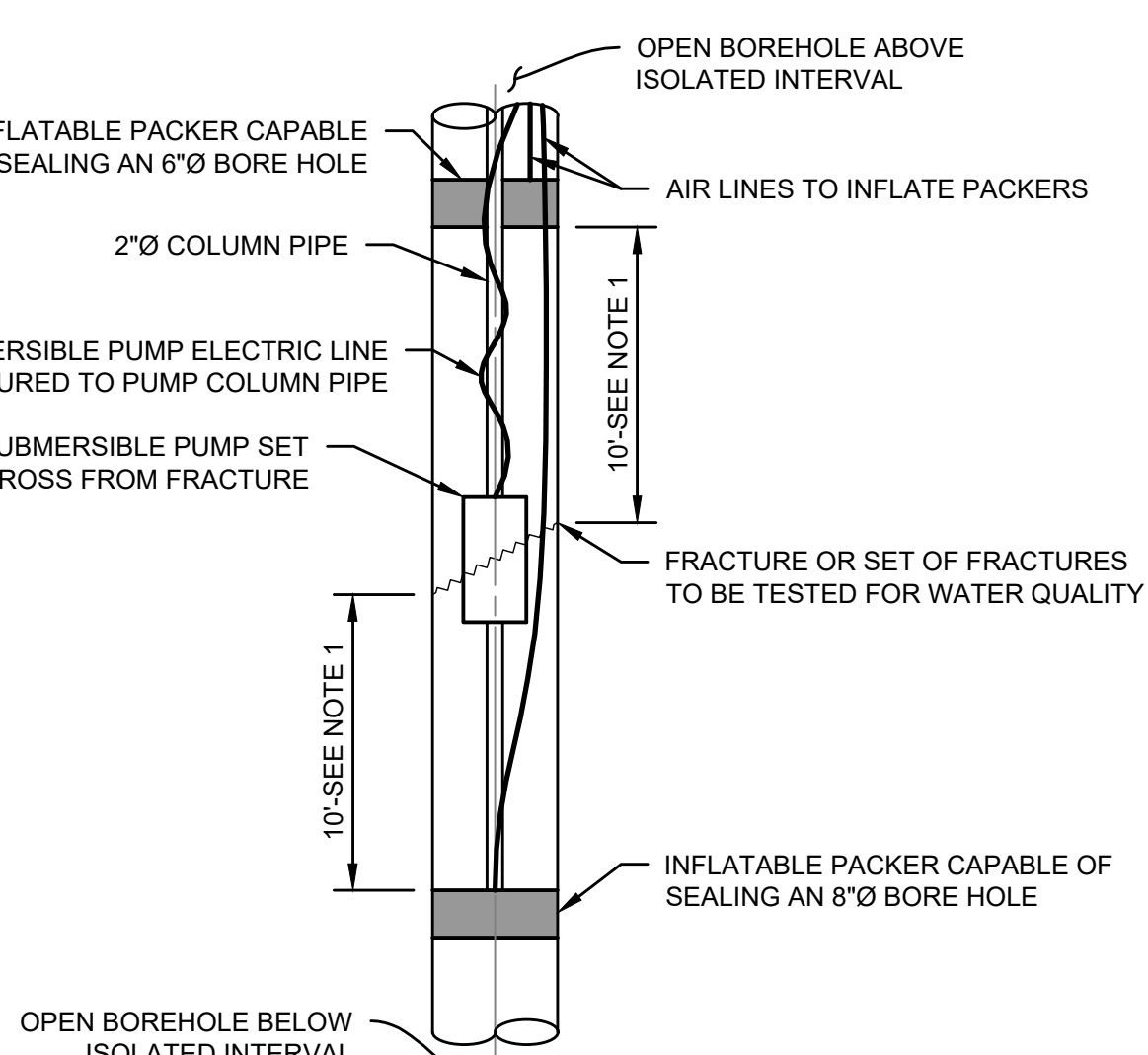
2/13/2025 5:52 AM C:\Users\matt.kemp\OneDrive\Documents\Projects\Waterworks District 40 Shaver Springs\DWG\DWG\WELL\WELL-11342-2.dwg



NOT TO SCALE

NOTES

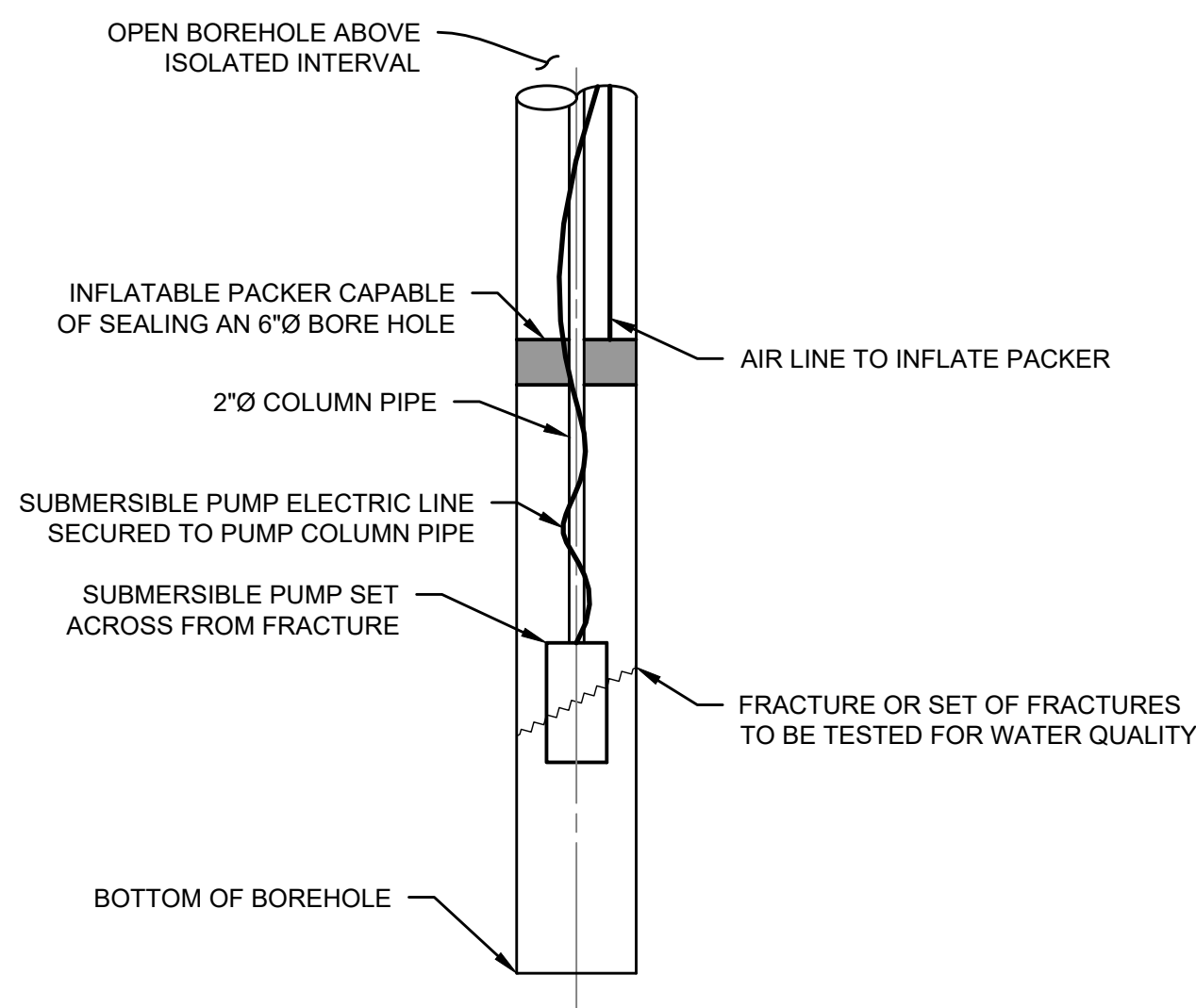
- DIMENSIONS MAY BE CHANGED UPON REVIEW OF CAMERA SURVEY OR CALIPER LOG.
- SUBMERSIBLE PUMP CAPACITY BASED ON ESTIMATED DISCHARGE FROM FRACTURE OR SET OF FRACTURES.



NOT TO SCALE

NOTES

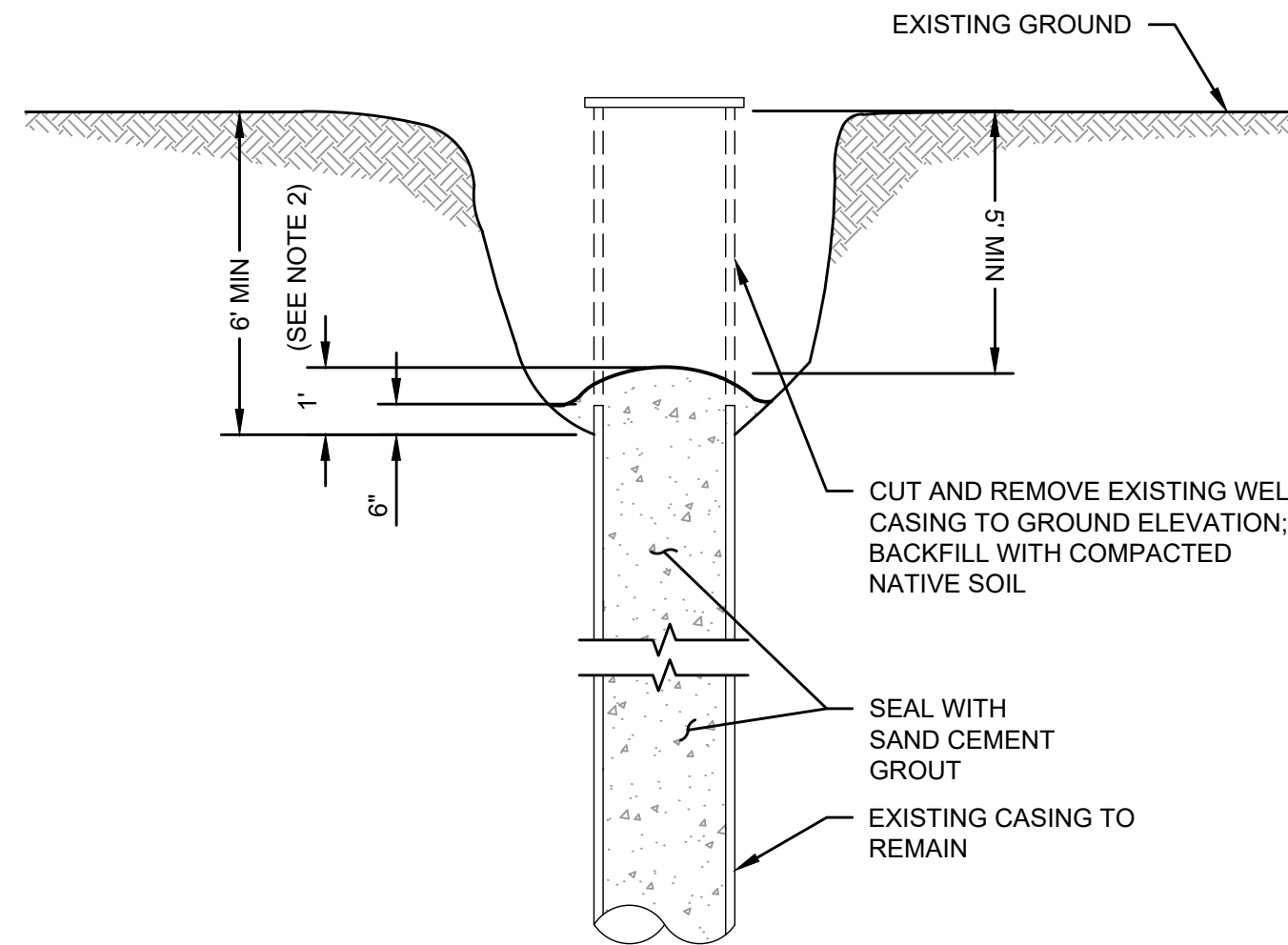
- DIMENSION MAY BE CHANGED UPON REVIEW OF CAMERA SURVEY OR CALIPER LOG.
- SUBMERSIBLE PUMP CAPACITY BASED ON ESTIMATED DISCHARGE FROM FRACTURE OR SET OF FRACTURES.



NOT TO SCALE

NOTES

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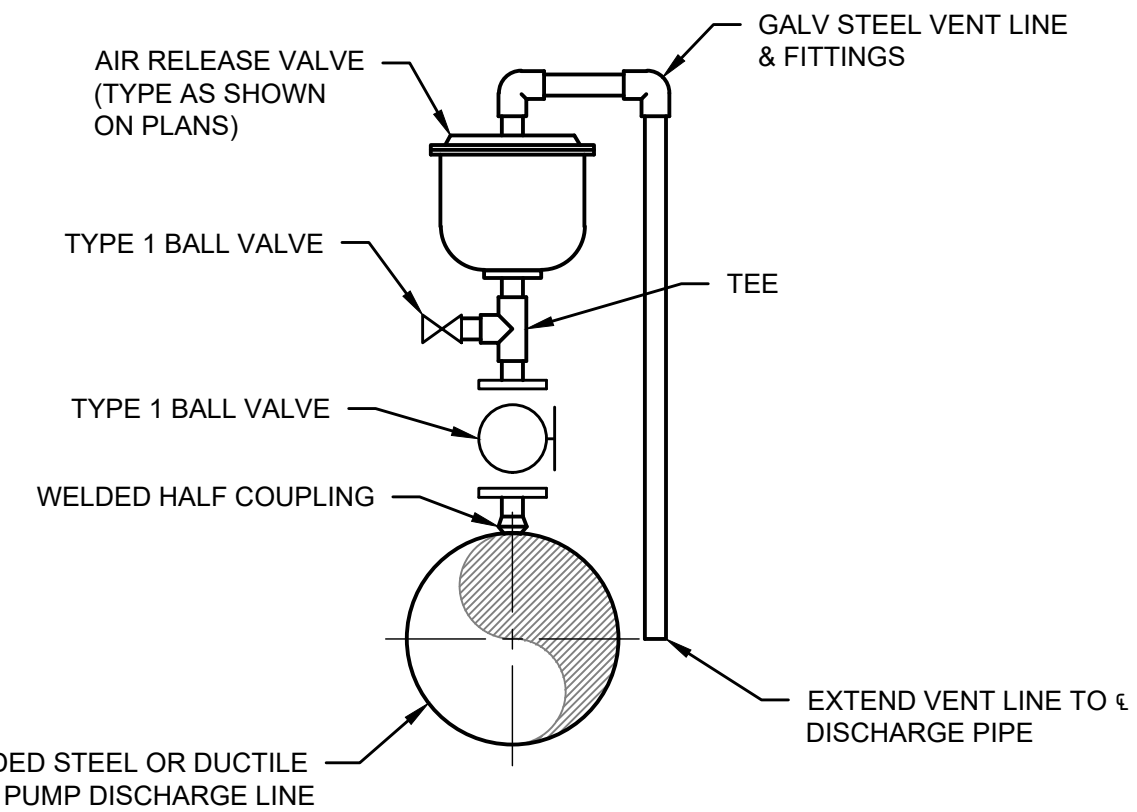


NOTES

- THE EXISTING WELLS SHALL BE DESTROYED BY THE CONTRACTOR IN ACCORDANCE WITH COUNTY OF FRESNO WATER WELL ORDINANCE AND CALIFORNIA DEPARTMENT OF WATER RESOURCES BULLETIN 74-81 AND 74-90.
- EXCAVATE AND REMOVE WELL CASING TO BEDROCK IF DEPTH TO BEDROCK IS LESS THAN 6 FEET.

NOT TO SCALE

WELL DESTRUCTION

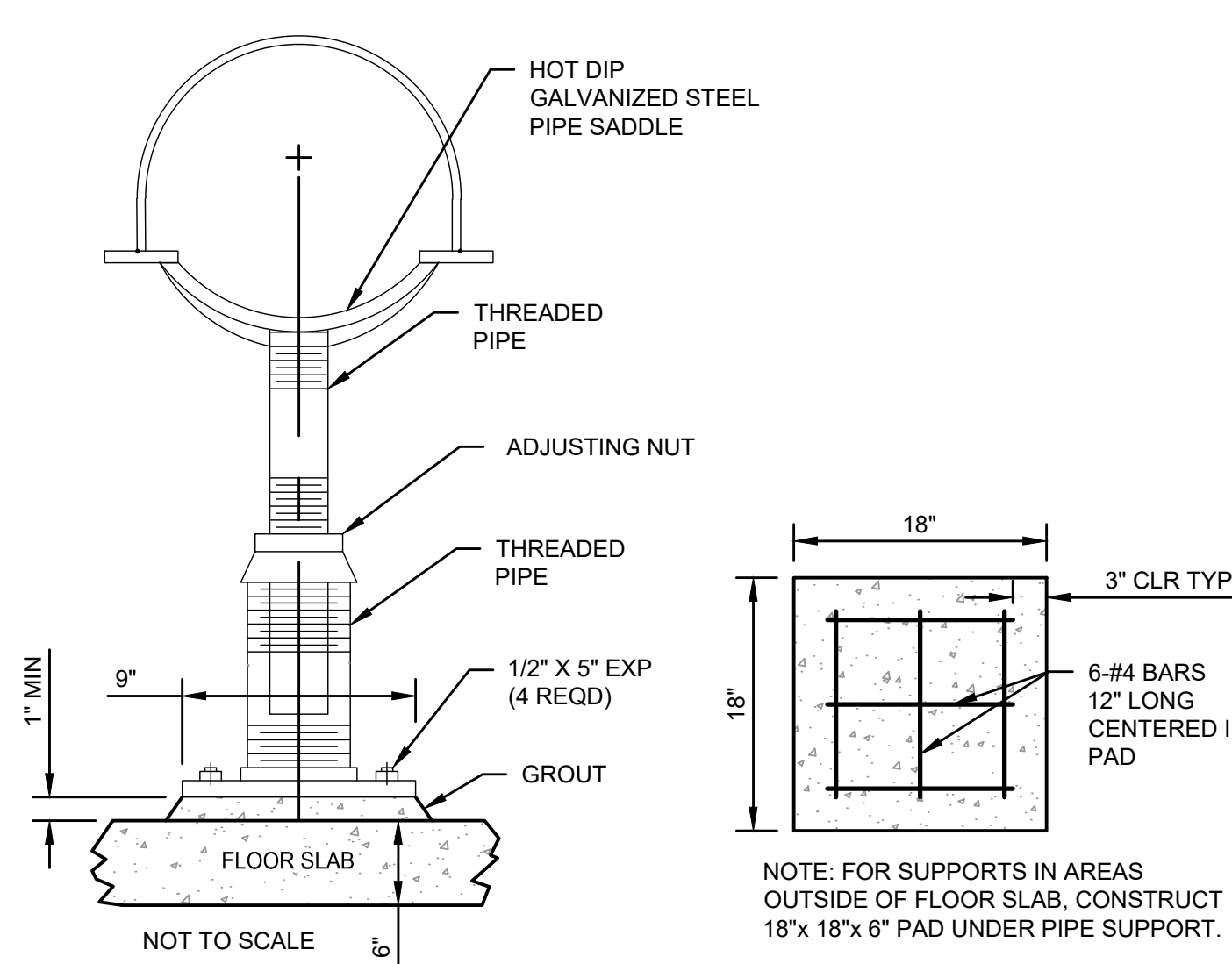


NOTES

- AIR RELEASE SIZE AS NOTED ON PLANS.
- PIPE AND VALVE SIZE TO BE THE SAME AS AIR RELEASE VALVE SIZE.

NOT TO SCALE

AIR RELEASE VALVE



NOT TO SCALE

ADJUSTABLE PIPE SUPPORT

NOTES

- ADJUSTABLE PIPE SADDLE SUPPORT SHALL BE EMPIRE INDUSTRIES, INC. OR APPROVED EQUAL



PROJECT WATERWORKS DISTRICT 40 SHAVER SPRINGS

ROAD NO.

BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING

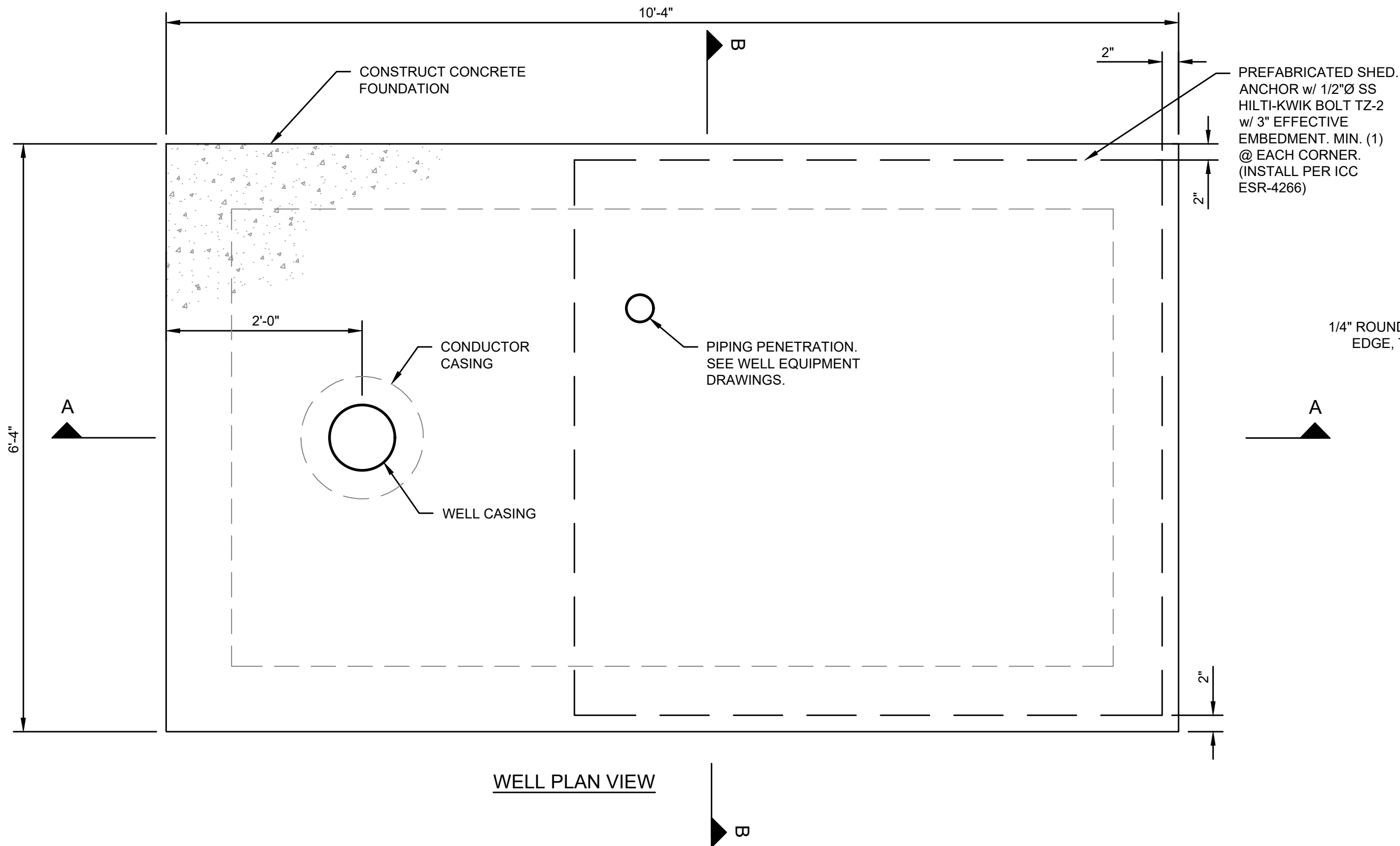
WELL DRILLING DETAILS 2 OF 2

DRAWING NO. 11342

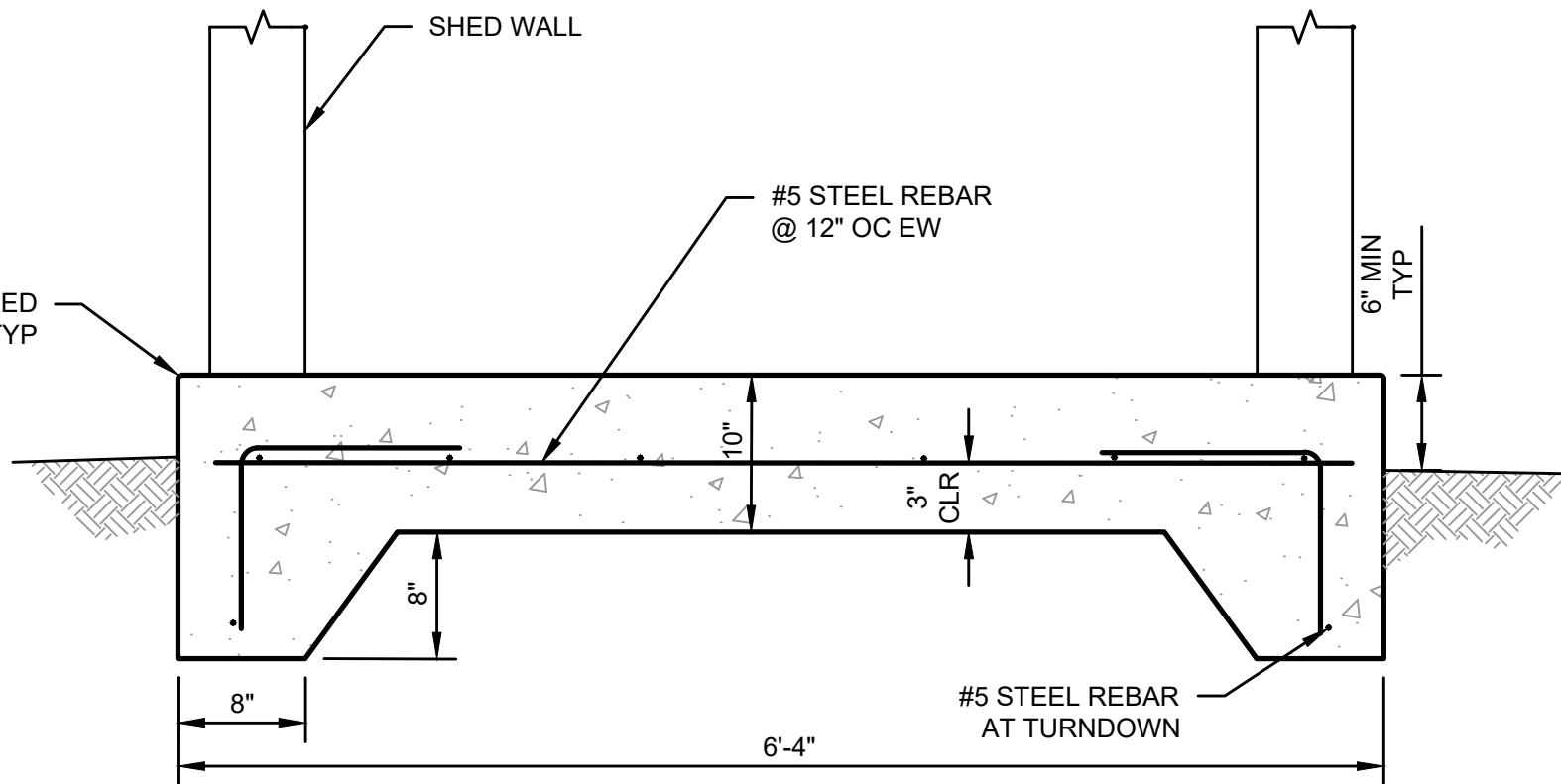
SHEET NO. 11

TOTAL 17

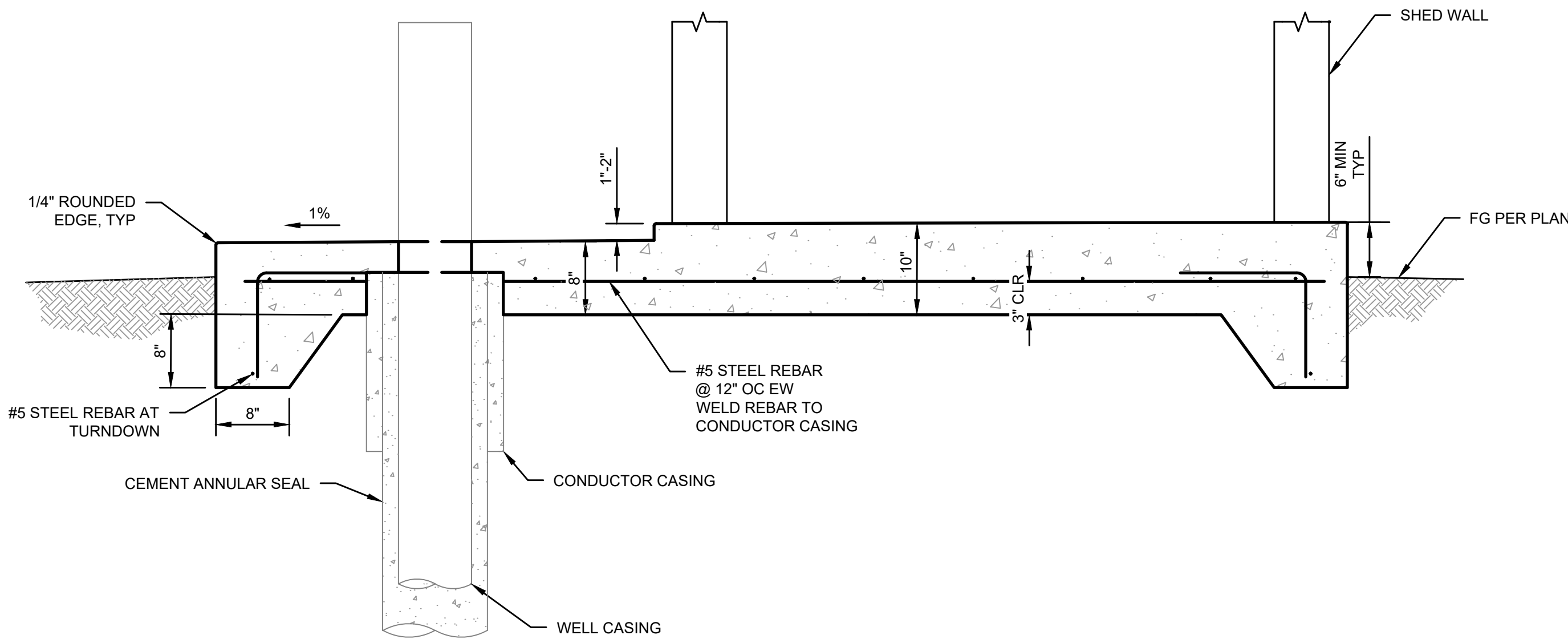
2/13/2025 9:52 AM S:\Irrigation County of Fresno\1397\1397\2403\WVD 40 Shaver Springs G.W Well\00_CAD\240 Sheet Set\04 Civil Details\04 DETAILS.dwg Sam Padua



WELL PLAN VIEW



SECTION B-B



SECTION A-A

NOTES

1. EXTEND CASING THROUGH CONCRETE FOUNDATION.
2. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS.



WELL PUMP FOUNDATION

1
12

DESIGNED:	DATE	RECORD DRAWING	
MATT KEMP	2/13/2024	RESIDENT ENGINEER	DATE
DRAWN:	2/13/2024		
JMN/SLP			
CHECKED:	2/13/2024		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

NOT TO SCALE

SUPERVISING ENGINEER

DATE



PROJECT
WATERWORKS DISTRICT 40 SHAVER
SPRINGS

ROAD NO.

BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING

STRUCTURAL DETAILS

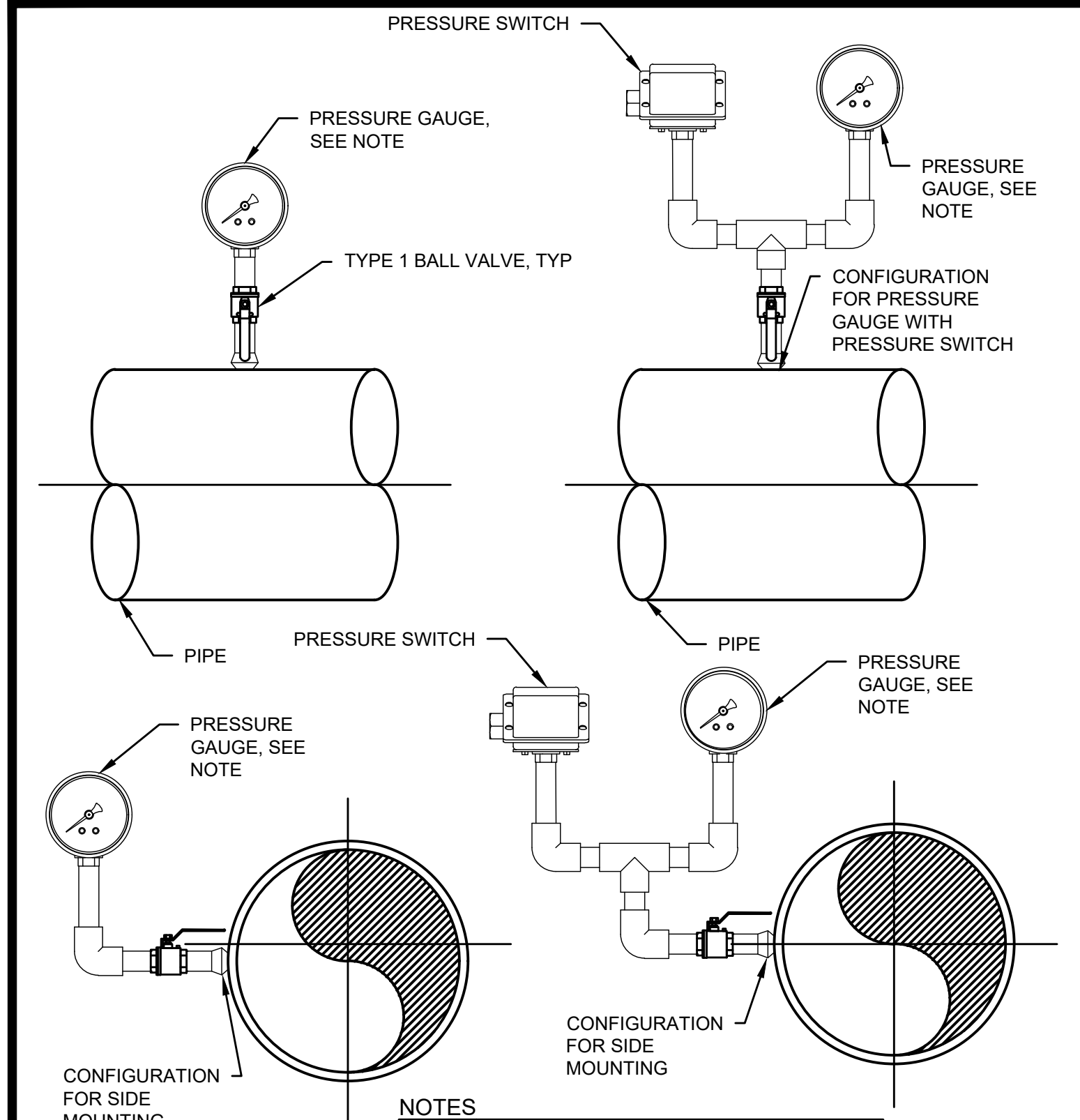
DRAWING NO. 11342

SHEET NO. 12

TOTAL 17

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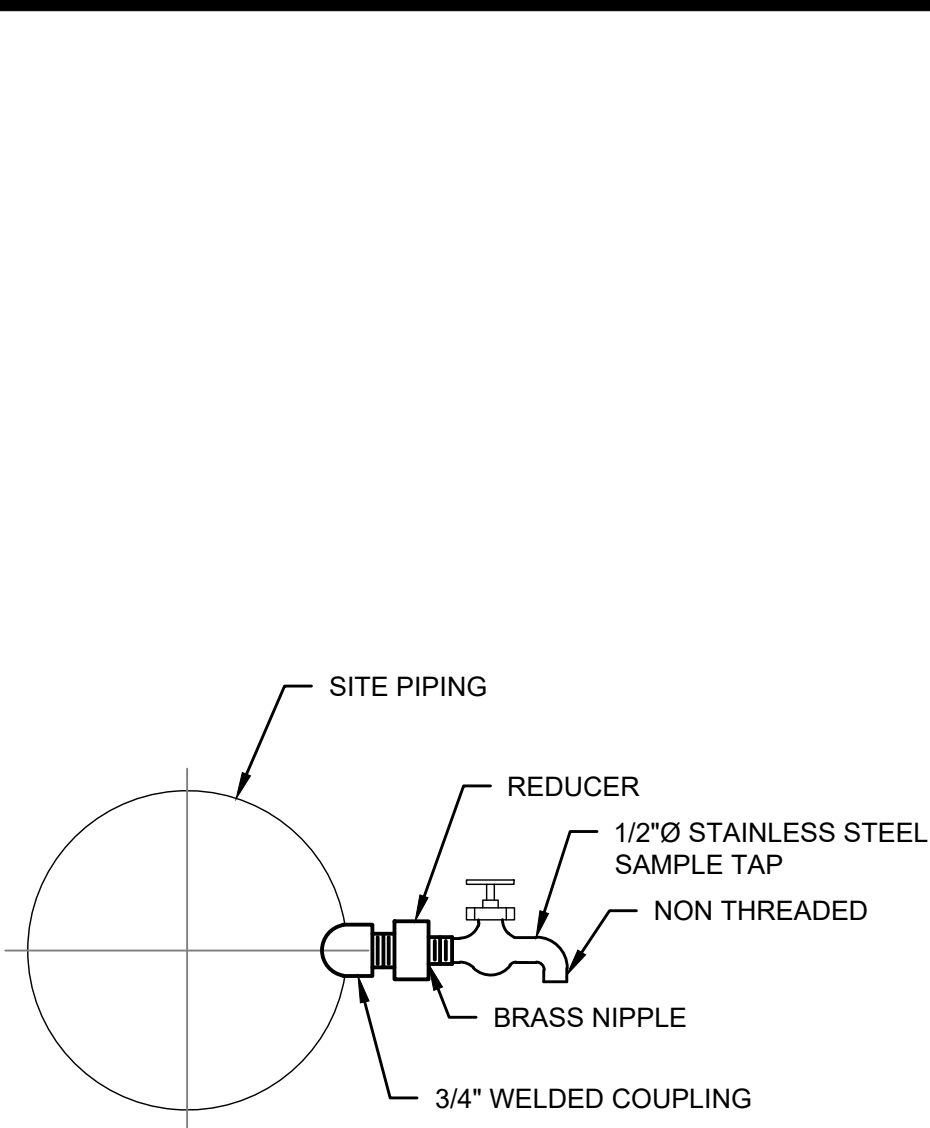
NOTES

1. TYPE 4 PRESSURE GAUGE AND MERCOID SERIES ED4W-N1E1-04T0-NIST ELECTRONIC PRESSURE CONTROLLER OR APPROVED EQUAL. REFER TO SPECIFICATION 40 91 30.
2. ALL PIPE FITTINGS SHALL BE 1/2".
3. SIDE MOUNT SHOWN ROTATED FOR CLARITY.

NOT TO SCALE

1
13

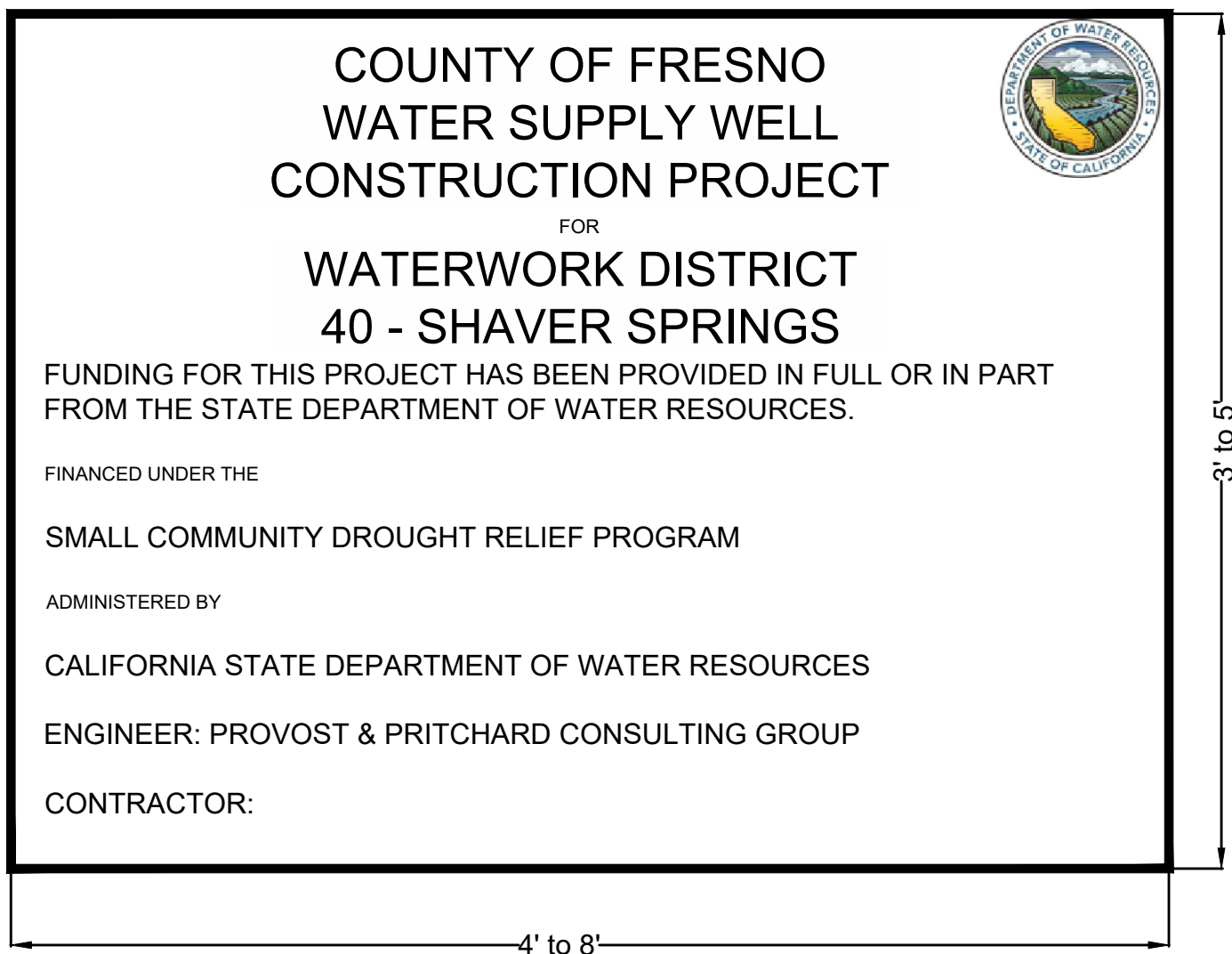
PRESSURE GAUGE AND PRESSURE SWITCH



NOT TO SCALE

2
13

TYPE 2 SAMPLE TAP

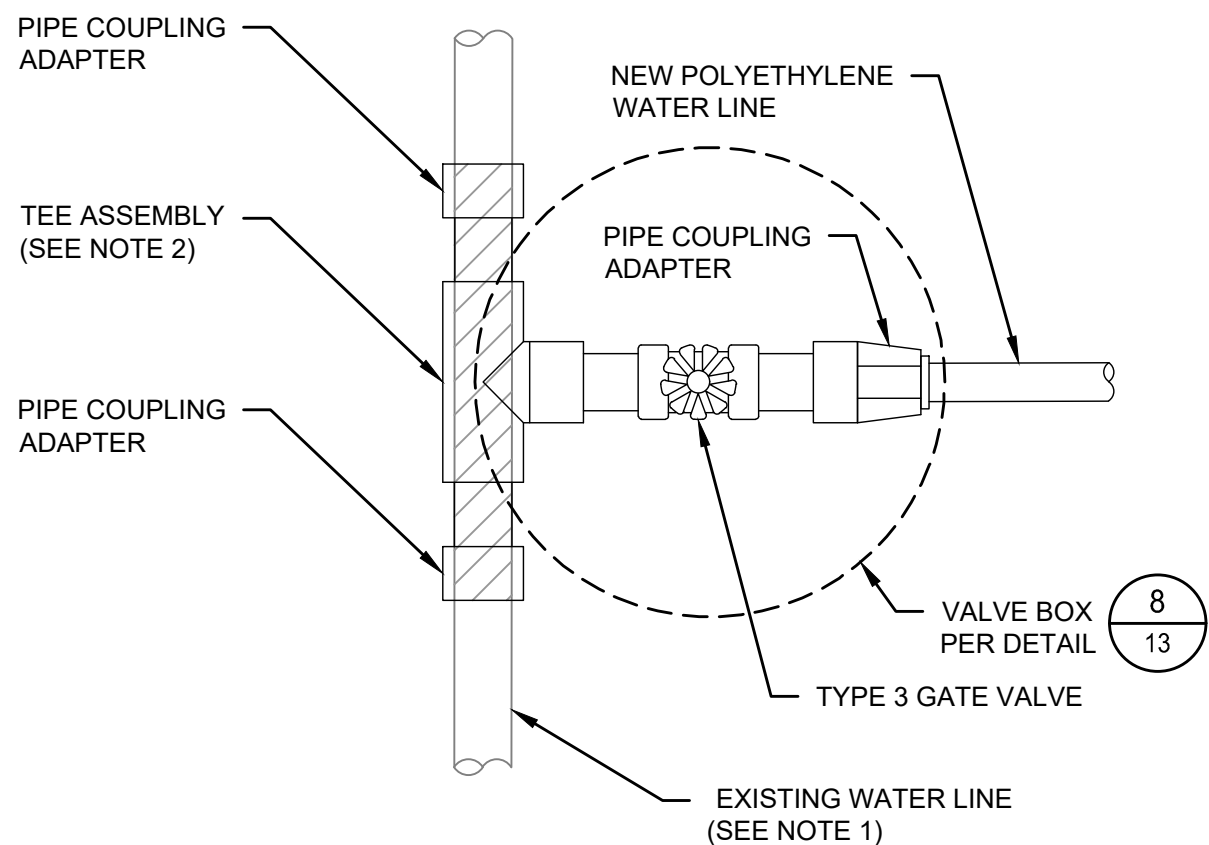


NOTES

1. THIS IS A CONCEPTUAL DESIGN SKETCH THAT IS NOT TO SCALE
2. PROVIDE ADEQUATE STRUCTURAL SUPPORTS FOR SIGN AS SITE CONDITIONS MAY REQUIRE.
3. KEEP SIGN A PROPER DISTANCE ABOVE PREVAILING GRADE TO PERMIT PUBLIC VIEWING.
4. SIZE DWR LOGO TO PERMIT PUBLIC VIEWING
5. PAINT LETTERS BLUE (BLUE NO. 15102 IN FEDERAL COLOR STANDARD NO. 595)
6. DWR LOGO AT: <https://d3.water.ca.gov/owncloud/index.php/s/s8CFdC3cvgf9v9p/download>

3
13

DWR PROJECT FUNDING SIGN



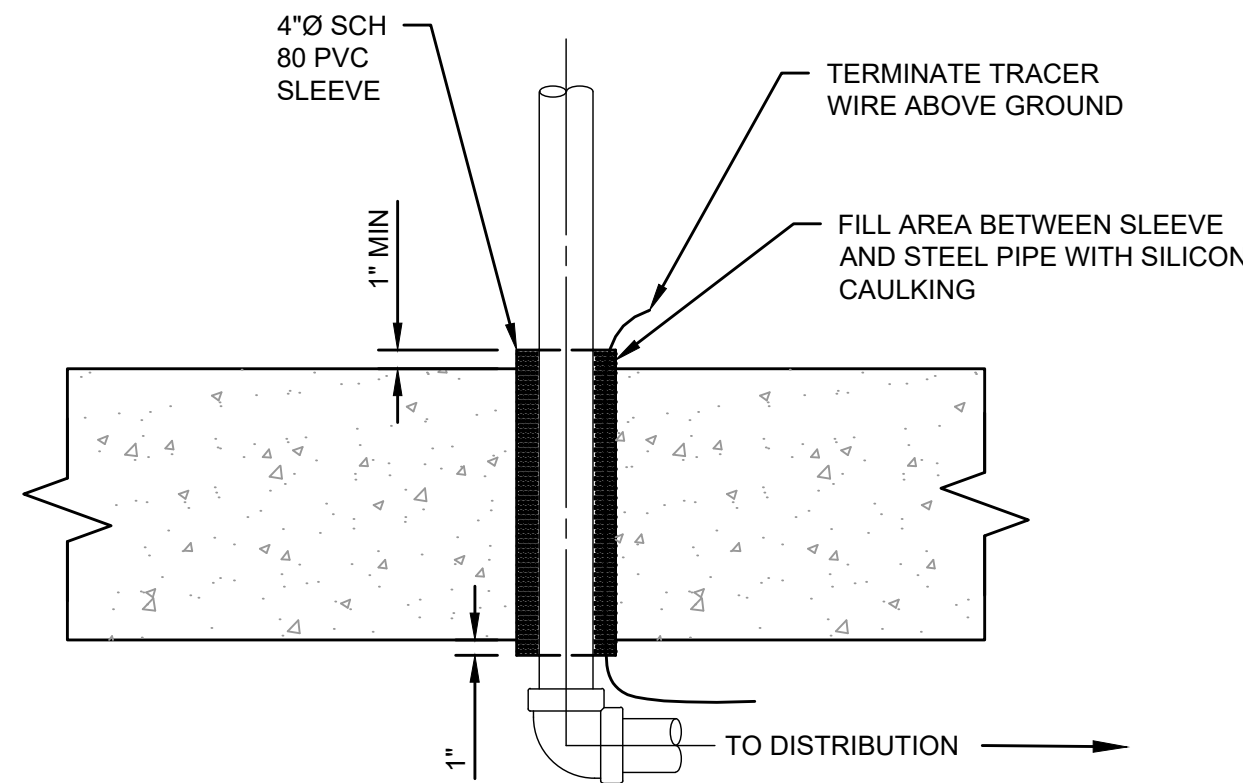
NOTES

1. CONTRACTOR SHALL VERIFY EXISTING WATER LINE LOCATION, SIZE AND PIPE MATERIAL.
2. CONTRACTOR SHALL CUT AND REMOVE PORTION OF EXISTING WATER LINE AND FURNISH AND INSTALL NEW TEE, PIPE AND ADAPTERS AS REQUIRED FOR CONNECTION TO NEW WATER LINE.
3. ALL NEW PIPE AND FITTINGS SHALL HAVE PRESSURE RATINGS GREATER THAN OR EQUAL TO TEST PRESSURE.

NOT TO SCALE

4
13

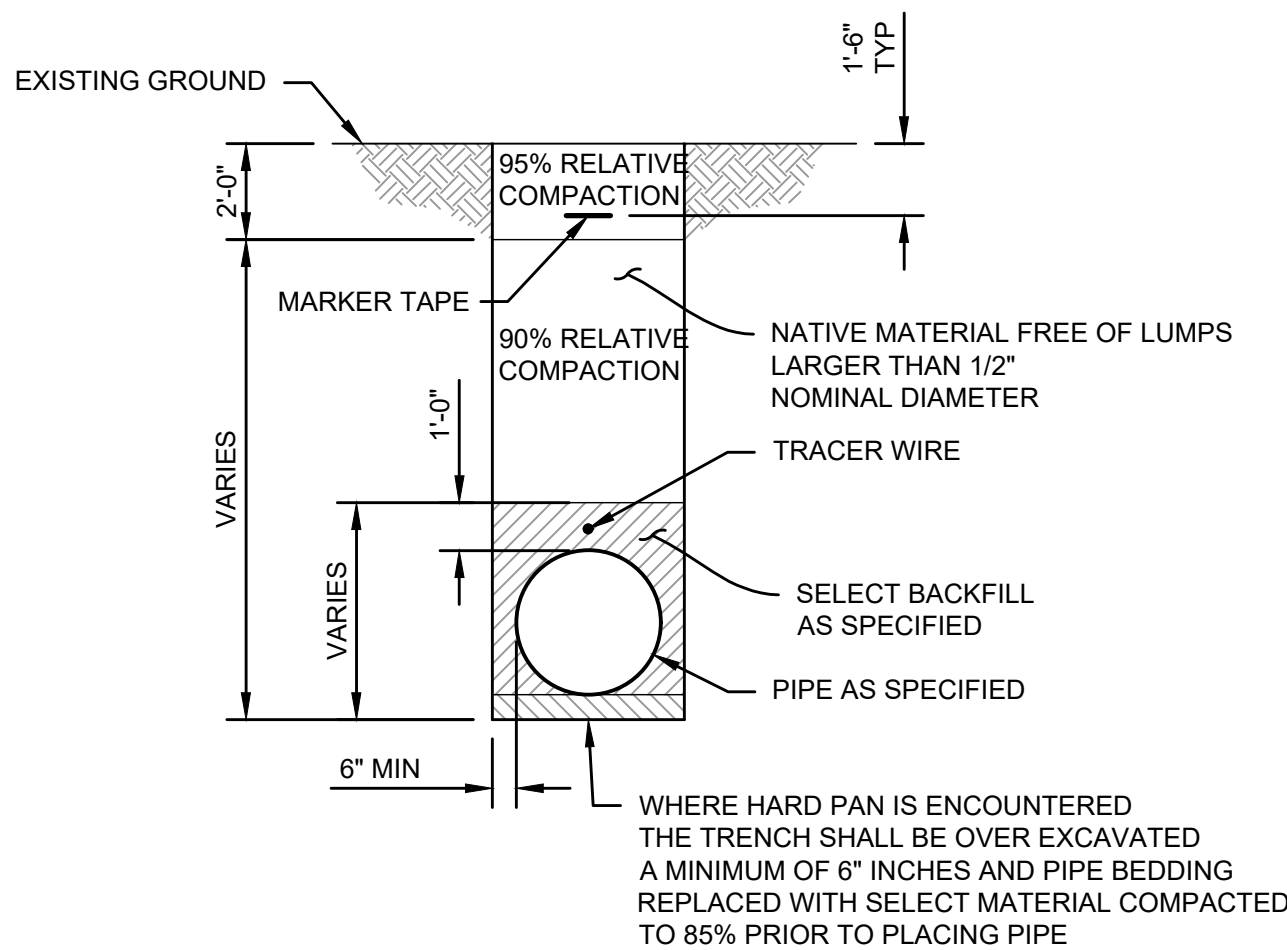
PIPE CONNECTION DETAIL



NOT TO SCALE

5
13

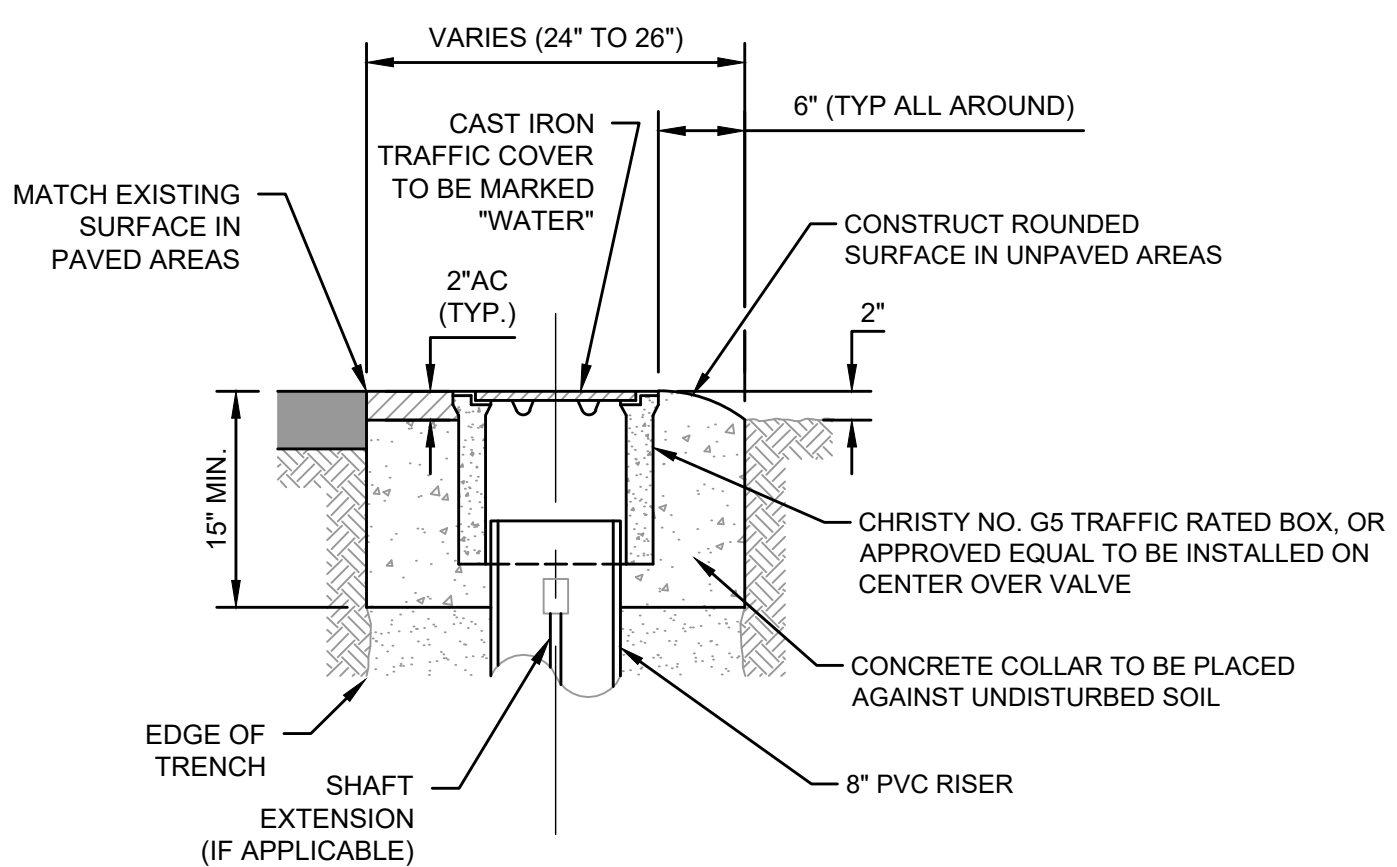
PIPE PENETRATION



NOT TO SCALE

6
13

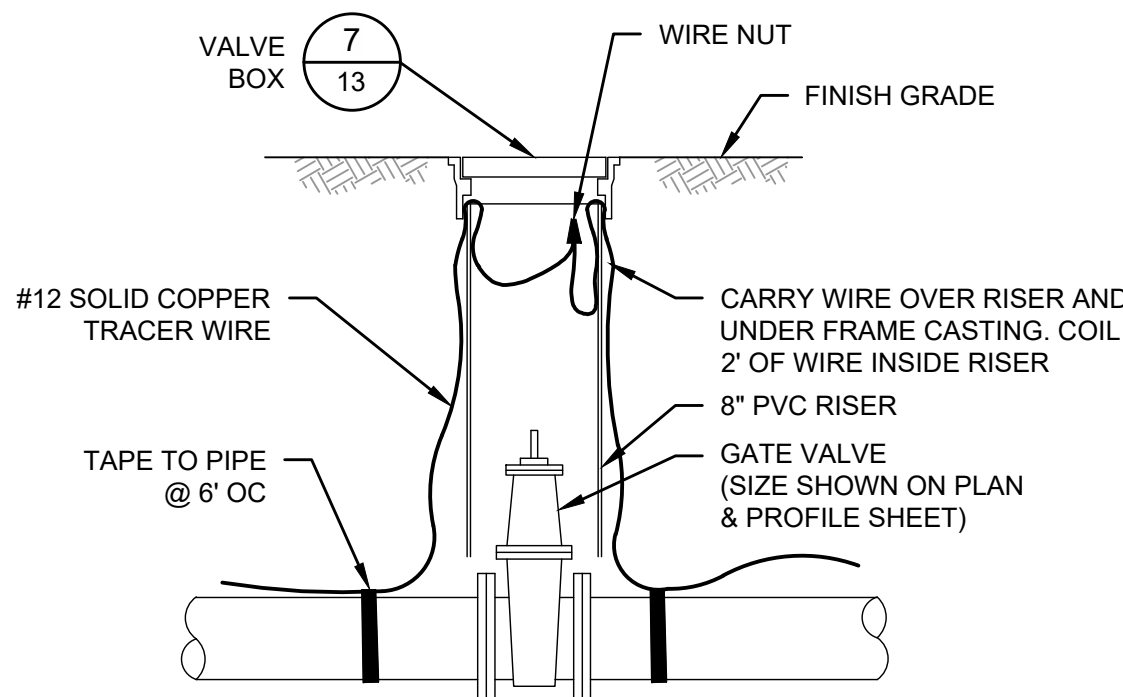
TYPICAL TRENCH BACKFILL NO PAVING



NOT TO SCALE

7
13

WATER VALVE BOX



NOTES

1. EXTENSION ROD REQUIRED WHEN DISTANCE FROM FINISHED GRADE IS GREATER THAN 36" CONSTRUCT CONCRETE COLLAR.
2. PROVIDE AT LEAST 6" OF OVERLAP BETWEEN RISER PIPES.

NOT TO SCALE

8
13

VALVE & VALVE BOX INSTALLATION

2/13/2024 9:53 AM S:\Fresno County of 1971\1971\2024\03\WVD 40 Shaver Springs CIVIL DETAILS.DWG S:\Fresno County of 1971\1971\2024\03\WVD 40 Shaver Springs CIVIL DETAILS.DWG S:\Fresno County of 1971\1971\2024\03\WVD 40 Shaver Springs CIVIL DETAILS.DWG

DESIGNED:	DATE	RECORD DRAWING	
DESIGNED: MATT KEMP	2/13/2024	RESIDENT ENGINEER	DATE
DRAWN: JMN/SLP	2/13/2024		
CHECKED:	2/13/2024		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.			

SCALE
NOT TO SCALE

SUPERVISING ENGINEER	DATE



PROJECT	
WATERWORKS DISTRICT 40 SHAVER SPRINGS	
ROAD NO.	BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING		
CIVIL DETAILS		
DRAWING NO. 11342	SHEET NO. 13	TOTAL 17



Know what's below.
Call before you dig.

WARNING



POWER LINES
OVERHEAD

GENERAL ELECTRICAL LEGEND

	CONCRETE PULL BOX -SIZE AS NOTED - LIDS AS NOTED 'P' POWER, 'S' SIGNAL, 'F' FIRE ALARM & 'D' DATA; '-T' DENOTES TRAFFIC LID
	CONDUIT -SURFACE MOUNTED OR ABOVE CEILING -EMT WITH COMPRESSION FITTING UNLESS NOTED ON PLANS
	CONDUIT -CONCEALED BELOW FLOOR IN EMT OR UNDERGROUND IN PVC SCH 40 WITH IMC ELBOWS
	HOMERUN TO PERSPECTIVE PANEL OR CABINET -BRANCH CIRCUIT WITH OUT FURTHER DESIGNATION IS A #12 WIRE CIRCUIT
	FLEX
	TERMINAL CABINET
	PANEL BOARD -SEE SCHEDULE
	MOTOR/EXHAUST FAN -N.I.E.S. -CONNECT AS REQUIRED
	DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
	QUADPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
	GFCI DUPLEX RECEPTACLE +15" A.F.F. FROM BOTTOM OF BOX U.O.N.
	JUNCTION BOX -4 11/16" x 2 1/8" SQUARE OR SMALL
	MOTOR RATED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH -SIZE AS NOTED -30A. SHOWN
	FULL VOLTAGE STARTER -SIZE AS NOTED -SIZE 3 SHOWN
	COMBINATION STARTER -SIZE AS NOTED -SIZE 3 SHOWN

SEE FIXTURE SCHEDULE FOR EXACT CALL OUT & DESCRIPTION

\$ SINGLE POLE TOGGLE SWITCH +48" SWITCHING SUBSCRIPTS

FIXTURE IDENTIFICATION -LETTER INDICATES FIXTURE TYPE -NUMERAL INDICATES LAMP QUANTITY AND WATTAGE

ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC)
PART 2, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 3, TITLE 24, CCR
BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
PART 4, TITLE 24, CCR
BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
PART 5, TITLE 24, CCR
BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)
2022 CALIFORNIA FIRE CODE (CFC)
PART 9, TITLE 24, CCR
BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)
2022 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE
w/ CALIFORNIA AMENDMENTS.

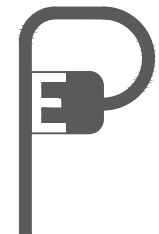
UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL ELECTRICAL NOTES

1. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND ALL PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
2. UNDERWRITERS LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
3. THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
4. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
5. DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE DISTRICT IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
6. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
7. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
8. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
9. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
10. OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +48" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
11. ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
12. ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.

ELECTRICAL ABBREVIATIONS

Δ	DELTA CONNECTED	CATV	CABLE TELEVISION	ENCL	ENCLOSURE	IDF	INTERMEDIATE DISTRIBUTION FRAME	MIN	MINIMUM	PS	PRESSURE SWITCH	TH	THERMOSTAT
Y	WYE CONNECTED	CKT	CIRCUIT	EP	EXPLOSION PROOF	INCAN	INCANDESCENT	MPOE	MAIN POINT OF ENTRY	PWR	POWER	TRANSF	TRANSFORMER
O	PHASE	CLG	CEILING	EQUIP	EQUIPMENT	IDC	INITIATING DEVICE CIRCUIT	MSB	MAIN SWITCHBOARD	(R)	REMOVE(D)	TYP	TYPICAL
&	AND	CO	CONDUIT ONLY	ETC	ET CETERA	IN	INCHES	N	NEUTRAL	RA	REMOTE ANNUNCIATOR	TSP	TWISTED SHIELDED PAIR
@	AT	COMM	COMMUNICATION	EVAP	EVAPORATOR	INST	INSTANTANEOUS	(N)	NEW	RD	ROAD	THRU	THROUGH
'	FEET	CONC	CONCRETE	(F)	FUTURE	J	JUNCTION BOX	NA	NON-AUTOMATIC	REQD	REQUIRED	UG	UNDERGROUND
"	INCHES	CONN	CONNECT	FA	FIRE ALARM	KV	KILOVOLTS	NAC	NOTIFICATION APPLIANCE CIRCUIT	REQMTS	REQUIREMENTS	UNO	UNLESS NOTED OTHERWISE
A	AMPERES	COORD	COORDINATE	FACP	FIRE ALARM CONTROL PANEL	KVA	KILOVOLT AMPERES	NC	NORMALLY CLOSED	RGP	REDUNDANT GROUND PATH	V	VOLTS
AC	ALTERNATING CURRENT	CR	CONTROL RELAY	FAT	FIRE ALARM TERMINAL CABINET	KW	KILOWATTS	NIES	NOT IN ELECTRICAL SECTION	RM	ROOM	VA	VOLT AMPS
ACT	ABOVE COUNTERTOP/BACKSPLASH	CT	CURRENT TRANSFORMER	FIXT	FIXTURE	L	LINE	NIC	NOT IN ELECTRICAL CODE	RECP	RECEPTACLE	VFD	VARIABLE FREQUENCY DRIVE
ADJ	ADJACENT, ADJOINING	COMP	COMPRESSOR	FLA	FULL LOAD AMPS	LB	ELBOW	NO., #	NUMBER	RT	RAIN TIGHT	VM	VOLT METER
AFD	ADJUSTABLE FREQUENCY DRIVE	CU	COPPER	FLEX	FLEXIBLE	LF	LINEAR FEET	NO	NORMALLY OPEN	SCH	SCHEDULE	W	WIRE
AFF	ABOVE FINISHED FLOOR	DC	DIRECT CURRENT	FLUOR	FLUORESCENT	LOS	LOCKOUT-STOP	NL	NIGHT LIGHT	SEC	SECONDS, SECONDARY	W/	WITH
AL	ALUMINUM	DET	DETAIL	FS	FLOW SWITCH	LOH	LOCK-OFF-HALT	OC	ON CENTER	SHT	SHEET	W/O	WITHOUT
APPROX	APPROXIMATE	DISC	DISCONNECT	FOR	FORWARD-OFF-REVERSE	LV	LOW VOLTAGE	OH	OVERHEAD	SIG	SIGNAL	WP	WEATHERPROOF
ARCH	ARCHITECT	DIST	DISTRIBUTION	FT	FEET	M	MOTOR	OL	THERMAL OVERLOAD RELAY	SPECS	SPECIFICATIONS	WHD	WATT HOUR DEMAND METER
AUTO	AUTOMATIC	DSA	DIVISION OF THE STATE ARCHITECT	GALV	GALVANIZED	MAX	MAXIMUM	OT	OVER TEMPERATURE	SW	SWITCH	WM	WATT METER
AUX	AUXILIARY	DWG	DRAWING	GND	GROUND	MCA	MINIMUM CIRCUIT AMPS	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT	SWD	SWITCHED	WH	WATER HEATER
ALT	ALTERNATE	(E), EXIST	EXISTING	GC	GENERAL CONTRACTOR	MCC	MOTOR CONTROL CENTER	PA	PUBLIC ADDRESS	SP	SPARE	XFMR	TRANSFORMER
AWG	AMERICAN WIRE GAUGE	EC	ELECTRICAL CONTRACTOR	HI	HIGH	MCM	THOUSAND CIRCULAR MILLS	PB	PULL BOX	STD	STANDARD	(XR)	REMOVE AND RELOCATE(D)
B	BARE	EL, ELEV	ELEVATION	HOA	HAND-OFF-AUTO	MCP	MOTOR CIRCUIT PROTECTOR	PNL	PANEL	STR	STRANDED		
BC	BARE COPPER GROUND	EL	EMERGENCY LIGHT	HOS	HAND-OFF-STANDBY	MDF	MAIN DISTRIBUTION FRAME	PH	PHASE	SWBD	SWITCHBOARD		
BKBD	BACKBOARD	ELECT	ELECTRICAL	HV	HIGH VOLTAGE	MECH	MECHANICAL	PR	PAIR	TELE	TELEPHONE		
BRKR	BREAKER	EMS	ENERGY MANAGEMENT SYSTEM	HVAC	HEATING, VENTILATION, AIR CONDITIONING	MFG	MANUFACTURER	PRI	PRIMARY	TEMP	TEMPERATURE		
BLDG	BUILDING	EMT	ELECTRICAL METALLIC TUBING							TOA	TEST OFF AUTOMATIC		
C	CONDUIT OR CONTRACTOR	EOL	END OF LINE										
CAB	CABINET												



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CONSULTING ELECTRICAL ENGINEERS

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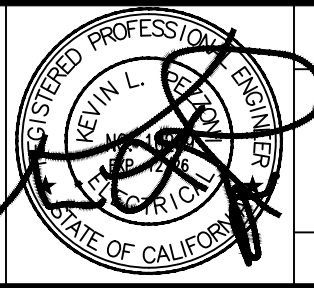
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F:\24\139 FRESNO COUNTY WWD40 SHAVER SPRINGS\ENGR\SHEETS\EO.1 ELECT COVER.DWG Kpezzoni 1/29/2025 3:55 PM 1:24:139 Fresno County WWD40 Shaver Springs\Eng\Sheets\EO.1 Elect Cover.dwg Kevin Pezzoni

	DATE	RECORD DRAWING	SCALE
DESIGNED: KLP	11/22/2024	RESIDENT ENGINEER	DATE
DRAWN: FR	11/22/2024		
CHECKED:KLP	11/22/2024		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.			

SUPERVISING ENGINEER

DATE



PROJECT
WATERWORKS DISTRICT 40 SHAVER
SPRINGS

ROAD NO. ##

BRIDGE NO. ##



DEPARTMENT OF PUBLIC WORKS AND PLANNING

ELECTRICAL COVER SHEET

DRAWING NO. 11342

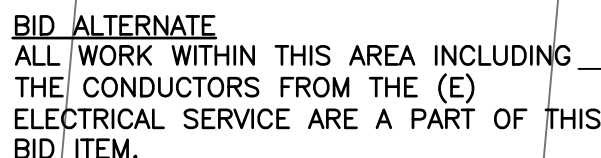
SHEET NO. E0.1

TOTAL 17

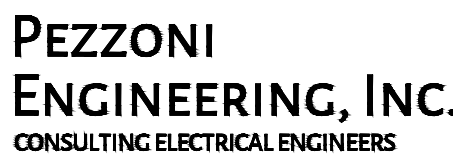


POWER LINES
OVERHEAD

POWER LINES
OVERHEAD

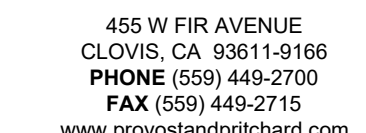


1. (E) WELL BLDG. & PG&E METER AT EXTERIOR & INCOMING PG&E TO REMAIN. INTERCEPT (E) FEEDER FROM (E) METER INTO (E) CONTROL PANEL & CONNECT TO (N) PANEL AS SHOWN ON SINGLE LINE DIAGRAM. SEE PANEL SCHEDULE SHEET E2.0 & SINGLE LINE DIAGRAM 2/E2.0.
2. (E) WELL CONTROL PANEL/DISCONNECT TO REMAIN DISCONNECT FROM PG&E METER & BACKFEED FROM (N) PANEL SEE PANEL SCHEDULE & SINGLE LINE DIAGRAM 2/E2.0.
3. (N) 100A. 120/240V.-3PH.-4W. SURFACE MOUNTED PANEL, INTERCEPT (E) FEEDER FROM (E) METER INTO (E) CONTROL PANEL & EXTEND AS REQD. TO RECONNECT (E) PG&E METER TO (N) PANEL "P", 100A.120V./240V.-3PH.-4W. PANEL "P", TO BACKFEED (E) WELL CONTROL/DISC. PANEL & PROVIDE (N) FEEDER(S) TO (N) WELL BLDG(S) PANEL(S). COORDINATE EXACT LOCATION & REQMTS. IN FIELD & w/PG&E PRIOR TO ROUGH-IN. SEE PANEL SCHEDULE SHEET E2.0 & SINGLE LINE DIAGRAM 2/E2.0.
4. (N) 2-3"C. ROUTE FROM (N) PANEL "P" TO STUB OUT OF (E) WELL BLDG. & ROUTE UNDERGROUND TO (N) WELL BLDG(S). VIA PULL BOXES TO RISER UP AT (N) PANEL(S). COORDINATE EXACT ROUTING w/OWNER PRIOR TO ROUGH-IN.
5. (N) WELL BLDG. w/(N) 50A.-120/240V. PANEL CONNECT (N) WELL PUMP, LIGHT & SWITCH, WP/GFCI DUPLEX RECEPTACLE & HEATER. SEE TYPICAL WELL BLDG ELECTRICAL PLAN 1/E2.0, SINGLE LINE DIAGRAM 2/E2.0 & PANEL SCHEDULE SHEET E2.0. COORDINATE EXACT LOCATION & REQMTS. IN FIELD & w/OWNER PRIOR TO ROUGH-IN.



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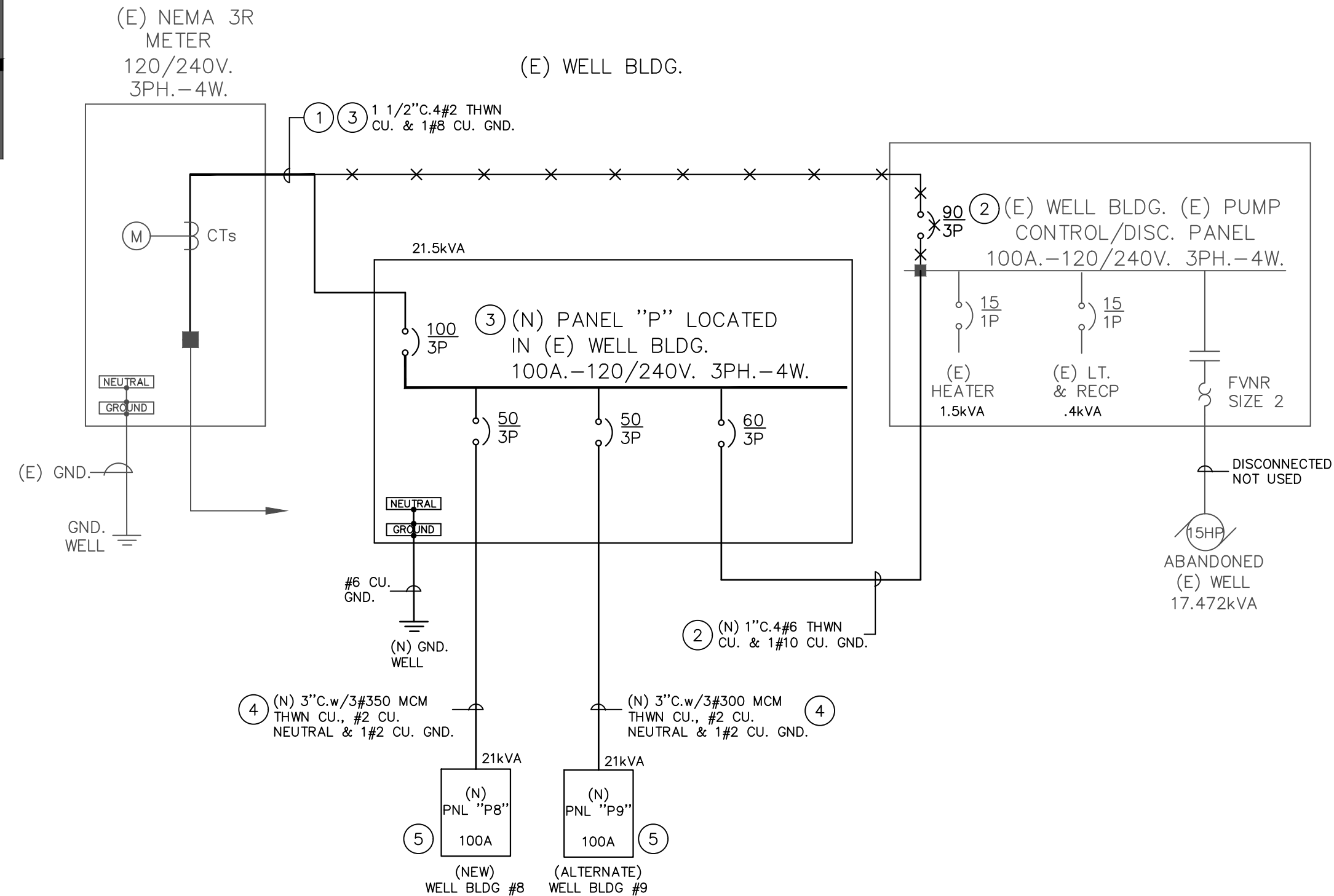
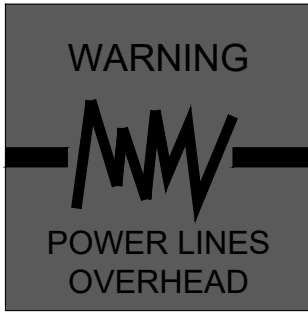
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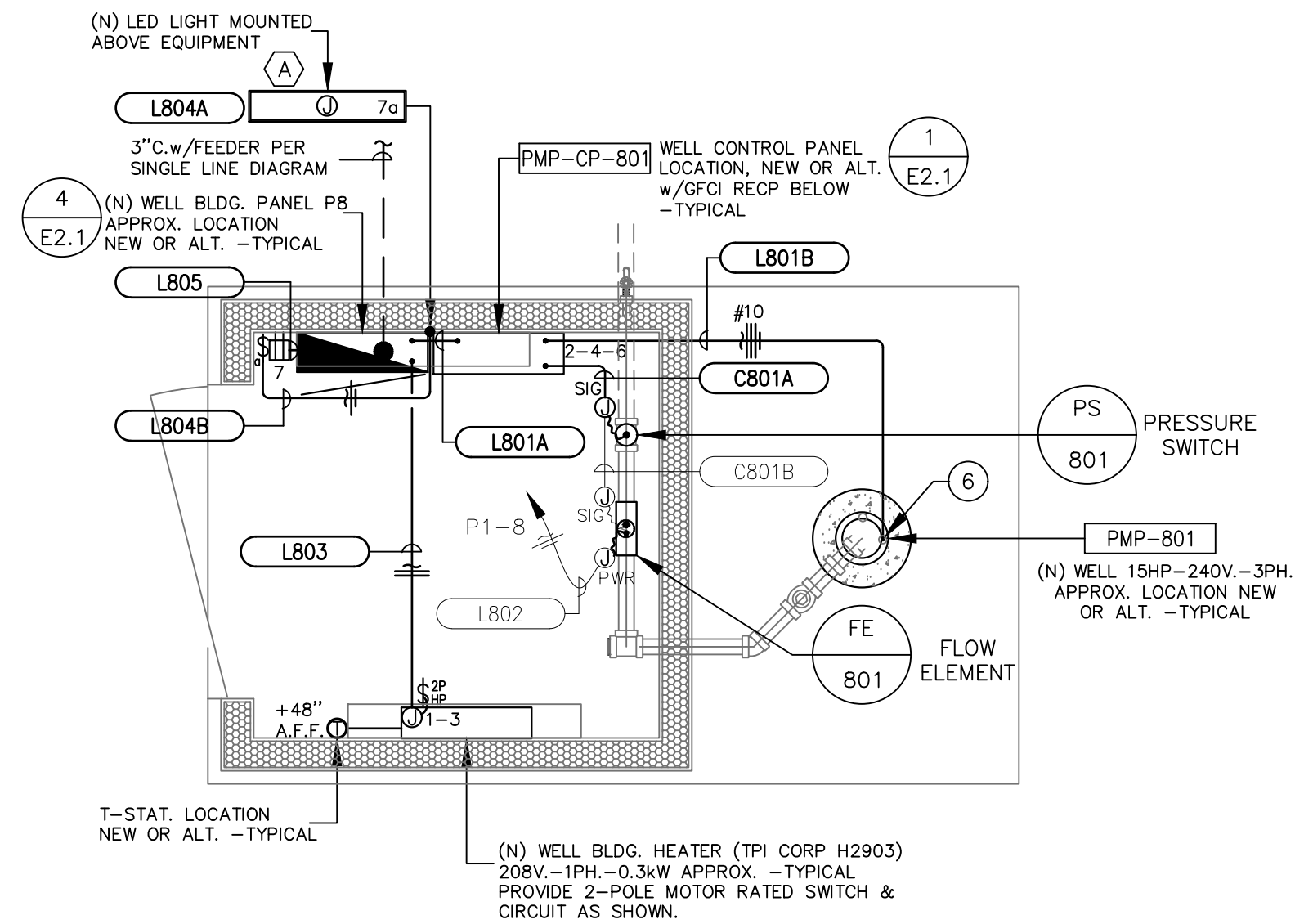
	DATE	RECORD DRAWING		SCALE				PROJECT				DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DESIGNED: KLP	11/22/2024	RESIDENT ENGINEER	DATE	SCALE: 1"=30'-0"		SUPERVISING ENGINEER DATE		WATERWORKS DISTRICT 40 SHAVER SPRINGS				(E) OVERALL SITE – (N) ELECTRICAL		
DRAWN: FR	11/22/2024													
CHECKED KLP	11/22/2024													
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								ROAD NO. ##		BRIDGE NO. ##		DRAWING NO. 11342 SHEET NO. E1.0 TOTAL 17		



Know what's below.
Call before you dig.



2 SINGLE LINE DIAGRAM
SCALE: NONE



1 TYPICAL WELL BLDG. ELECTRICAL PLAN
SCALE: 1/2"=1'-0"

PLAN NOTES:

- (E) WELL BLDG. PG&E METER AT EXTERIOR & INCOMING PG&E TO REMAIN. INTERCEPT (E) FEEDER FROM (E) METER INTO (E) CONTROL PANEL & CONNECT TO (N) PANEL AS SHOWN ON SINGLE LINE DIAGRAM. SEE PANEL SCHEDULE & SINGLE LINE DIAGRAM 2/E2.0.
- (E) WELL CONTROL PANEL/DISCONNECT TO REMAIN DISCONNECT FROM PG&E METER & BACKFEED FROM (N) PANEL SEE PANEL SCHEDULE & SINGLE LINE DIAGRAM 2/E2.0.
- (N) 100A. 120/240V.-3PH.-4W. SURFACE MOUNTED PANEL, INTERCEPT (E) FEEDER FROM (E) METER INTO (E) CONTROL PANEL & EXTEND AS REQD. TO RECONNECT (E) PG&E METER TO (N) PANEL "P", 100A.120V./240V.-3PH.-4W. PANEL "P". TO BACKFEED (E) WELL CONTROL/DISC. PANEL & PROVIDE (N) FEEDER(S) TO (N) WELL BLDG(S) PANEL(S). COORDINATE EXACT LOCATION & REQMTS. IN FIELD & w/PG&E PRIOR TO ROUGH-IN. SEE SINGLE LINE DIAGRAM 2/E2.0 & PANEL SCHEDULE.
- (N) 1-3"C. ROUTE FROM (N) PANEL "P" TO STUB OUT OF (E) WELL BLDG. & ROUTE UNDERGROUND TO (N) WELL BLDG. VIA PULL BOXES TO RISE UP AT (N) PANEL. COORDINATE EXACT ROUTING w/OWNER PRIOR TO ROUGH-IN.
- (N) WELL BLDG. w/(N) 50A.-120/240V. PANEL CONNECT (N) WELL PUMP, LIGHT & SWITCH, WP/GFCI DUPLEX RECEPTACLE & HEATER. SEE TYPICAL WELL BLDG ELECTRICAL PLAN 1/E2.0, SINGLE LINE DIAGRAM & PANEL SCHEDULE. COORDINATE EXACT LOCATION & REQMTS. IN FIELD & w/OWNER PRIOR TO ROUGH-IN.
- PROVIDE 3C/4AWG CORD TO PUMP.

PANELBOARD SCHEDULE																								
(N)		PANEL: P			BUS RATING: 100 A.			VOLTAGE: 120/240 V.			PHASE: 3ø		WIRE: 4		SCCR: 22k		BUSSING: Cu		LOCATION: (E) WELL BLDG		NEMA TYPE: 1		MOUNTING: SURFACE	
CKT	DESCRIPTION				BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION				CKT						
1	(E) WELL BLDG PANEL				60/3	N	1500	5402			3902	M	50/3	(N) PANEL P1				2						
3	"				/	N	400		4008		3908	M	/	"				4						
5	"				/	N				2108	2108	M	/	"				6						
7	(N) RECP WP/GFCI				20/1	R	180	4082			3902	N	50/3	(N) PANEL P2				8						
9	SPARE				20/1				3908		3908	N	/	"				10						
11										2108	2108	N	/	"				12						
13								0										14						
15									0									16						
17										0								18						
								9454	7816		4216													
CONTINUOUS (C):				0 VA				MCB: 100/3																
NON-CONTINUOUS (N):				11518 VA				MLD: -				MAX. PHASE @125% = 98.8 A.												
RECEP. (R):				180 VA								DEMAND TOTAL = 21.3 kVA												
MOTOR (M) OR (M1):				9818 VA								= 51.3 A.												
LIGHTING (L):				0 VA								@125% = 84.1 A.												
KITCHEN >1750W (K):				0 VA				DEMAND CALC. PER ART 220																

PANELBOARD SCHEDULE															
TYPICAL PER WELL SITE, WELL 8 & WELL 9.										TYPICAL PANEL P8 & P9					
PANEL: P8 & P9 BUS RATING: 100 A. VOLTAGE: 120/240 V.										PHASE: 3ø WIRE: 4		SCCR: 22k BUSSING: Cu		LOCATION: (N) WELL BLDG NEMA TYPE: 1 MOUNTING: SURFACE	
CKT	DESCRIPTION	BRKR	TYPE	LOAD	A (va)	B (va)	C (va)	LOAD	TYPE	BRKR	DESCRIPTION	CKT			
1	HEATER 3kW	20/2	M	1500	3908			2108	M	25/3	PMP-01 WELL PUMP	2			
3	"	/	M	1500		3908		2108	M	/	"	4			
5	"	/	M				2108	2108	M	/	"	6			
7	RECP & LIGHT	20/1	R	194	194					20/1	SPARE	8			
9	"					0				20/1	SPARE	10			
11							0					12			
13					0							14			
15						0						16			
17							0					18			
					3902	3908	2108								
CONTINUOUS (C):		0 VA		MCB: 50/3											
NON-CONTINUOUS (NI):		0 VA		MLD: -											
RECEP. (R):		194 VA													
MOTOR (M) OR (M1):		8324 VA													
LIGHTING (L):		0 VA													
KITCHEN >1750W (K):		0 VA													
DEMAND CALC. PER ART 220															
										MAX. PHASE @125% =		39.6 A.			
										DEMAND TOTAL =		9.5 kVA			
												= 22.9 A.			
										@125% =		28.6 A.			

CONDUIT & CABLE SCHEDULE													
TYPICAL FOR EACH WELL SITE WELL 8 & WELL 9 (WITH _X9## BEING TYPICAL FOR WELL 9).													
CONDUIT ID#	FROM	TO	QNTY	SIZE	TYPE	QNTY	SIZE	GND	QNTY	TYPE	NOTES		
L 801 A	(N) PANEL P8	PMP-CP-801	1	3/4"	RMC	4	#10	#10			P8-2-4-6 WELL CONTROL PANEL		
L 801 B	PMP-CP-801	PMP-801	1	3/4"	RMC	4	#10	#10			P8-2-4-6 WELL HEAD [2][3]		
L 802	(NOT USED)												
L 803	(N) PANEL P8	HEATER @ WELL BLDG.	1	3/4"	RMC	2	#12	#12			P8-1-3 WELL BLDG HEATER w/T-STAT		
L 804 A	(N) PANEL P8	J BOX @ (N) LED LIGHT FIXTURE	1	3/4"	RMC	2	#12	#12			P8-7a WELL BLDG LIGHT		
L 804 B	J BOX @ (N) LED LIGHT FIXTURE	SURFACE MOUNTED SINGLE SWITCH	1	3/4"	RMC	2	#12	#12			P8-7a WELL BLDG LIGHT SWITCH		
L 805	(N) PANEL P8	GFCI DUPLEX RECEPTACLE	1	3/4"	RMC	2	#12	#12			P8-7		
C 801 A	PMP-CP-801	J BOX @ PS-801	1	1"	RMC				2	2C/16AWG STP	CONNECT PRESSURE SWITCH [2][3]		

- NOTES:
- [1] = PROVIDE CONDUCTOR/CABLES IN ALL CONDUITS
 - [2] = CONDUIT BELOW GRADE MAY BE PVC SCH40
 - [3] = PROVIDE LFMC CONNECTION W/SS FITTINGS
 - [4] = STUB & CAP +6"AFF

LIGHTING FIXTURE SCHEDULE				
DESIG.	SYMBOL	LED QTY/WATTS	DESCRIPTION	MANUFACTURER
A		1200LM 14W	LED WRAP AROUND NARROW BODY WALL MOUNTED LIGHT	ELITE LIGHTING# 2-ONW-LED-1200L-DIM10- MVOLT-30K-85-USA

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		DATE	RECORD DRAWING		SCALE						PROJECT WATERWORKS DISTRICT 40 SHAVER SPRINGS				DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DESIGNED: KLP		11/22/2024	RESIDENT ENGINEER		DATE										TYPICAL WELL BLDG ELECTRICAL PLAN SINGLE LINE DIAGRAM & SCHEDULES		
DRAWN: FR		11/22/2024															
CHECKED: KLP		11/22/2024															
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								SUPERVISING ENGINEER		DATE				ROAD NO. ##		BRIDGE NO. ##	
																DRAWING NO. 11342	
																SHEET NO. E2.0	
																TOTAL 17	

